

MEC PC Software

Operation Manual Seventh edition

IAI America, Inc.



Please Read Before Use

Thank you for purchasing our product.

This Operation Manual explains the handling methods, structure and maintenance of this product, among others, providing the information you need to know to use the product safely.

Before using the product, be sure to read this manual and fully understand the contents explained herein to ensure safe use of the product.

The DVD that comes with the product contains operation manuals for IAI products.

When using the product, refer to the necessary portions of the applicable operation manual by printing them out or displaying them on a PC.

After reading the Operation Manual, keep it in a convenient place so that whoever is handling this product can reference it quickly when necessary.

[Important]

- This Operation Manual is original.
- The product cannot be operated in any way unless expressly specified in this Operation Manual. IAI shall assume no responsibility for the outcome of any operation not specified herein.
- Information contained in this Operation Manual is subject to change without notice for the purpose of product improvement.
- If you have any question or comment regarding the content of this manual, please contact the IAI sales
 office near you.
- Using or copying all or part of this Operation Manual without permission is prohibited.
- The company names, names of products and trademarks of each company shown in the sentences are registered trademarks.

Software License Agreement

Before opening this product, read the software license agreement (hereinafter referred to as "Agreement"). This Agreement applies to the PC software that comes with this product (hereinafter referred to "Software"). By using this software, you are deemed to have agreed to the terms of this Agreement. You may not use this software if you do not agree to the terms of this Agreement.

If you do not agree to the terms of this Agreement, please return your product in the original, unused condition, and IAI will refund the price you paid for the product.

IAI Corporation (hereinafter referred to as "IAI") shall grant to the user (hereinafter referred to as "the User"), and the User shall accept, a non-transferable, non-exclusive right to use the software program supplied with this Agreement (hereinafter referred to as "the Licensed Software"), based on the following terms and conditions.

Witnesseth

1. Term of Agreement

This Agreement shall take effect when the User opens this software and remain effective and in force until this Agreement is terminated upon a written request made by the User to IAI or pursuant to the provision of Section 3.

2. Right of Use

The User may use this software on a computer on the condition that an external equipment communication cable manufactured and sold by IAI (hereinafter referred to as "Dedicated Connection Cable") is used. The User or a third party may use this software on multiple computers on the condition of using dedicated connection cables.

3. Termination of Agreement

If the User violates any of the provisions specified in this Agreement or any material reason arises that makes continuation of this Agreement difficult, IAI may terminate this Agreement immediately without serving any notice.

If this Agreement is terminated, the User shall destroy this software, dedicated connection cable or cables, and all copies of this software, within ten (10) days from the date of termination of this Agreement.

4. Scope of Protection

IAI may change any and all specifications regarding this software without prior notice. IAI shall also provide no warranty in connection with this software. Neither the User nor any third party may demand compensation for any loss suffered by the User or third party as a result of use of this software by the User or third party.



Supported Models

The table below lists the supported models.

	List of Supported Models
	Controller model
	PMEC
	AMEC
İ	ERC3 ^{*1}

* 1 ERC3 is available only in MEC mode. It cannot be used in CON mode. ERC3 is applicable for version V2.00.00.00 and later.



Notes

- [1] All copyrights to or in this software belong to IAI Corporation.
- [2] The software and the manual can only be used upon the software license agreement.
- [3] IAI shall assume no responsibility whatsoever for any outcome of using this software and manual.
- [4] The version number or edition specified on the cover of this manual has no correlation at all with the version number of the software.
- [5] Contents of this software are subject to change without prior notice.
- [6] This software runs on the Windows operating systems listed in the table below. Accordingly, one precondition for users of this software is that they can perform basic Windows operations. (Note that this software does not come with any Windows operating system.)

Port used	Compatible Windows operating systems
USB	Windows 2000 ^{*1} , Windows XP ^{*2} Windows Vista ^{*3} , Windows 7 ^{*3}

- *1 SP4 or higher
- *2 SP2 or higher
- *3 Supported on version V1.01.00.00 or later.

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Safety Guide

"Safety Guide" has been written to use the machine safely and so prevent personal injury or property damage beforehand. Make sure to read it before the operation of this product.

Safety Precautions for Our Products

The common safety precautions for the use of any of our robots in each operation.

No.	Operation Description	Description
1	Model Selection	 This product has not been planned and designed for the application where high level of safety is required, so the guarantee of the protection of human life is impossible. Accordingly, do not use it in any of the following applications. 1) Medical equipment used to maintain, control or otherwise affect human life or physical health. 2) Mechanisms and machinery designed for the purpose of moving or transporting people (For vehicle, railway facility or air navigation facility) 3) Important safety parts of machinery (Safety device, etc.) Do not use the product outside the specifications. Failure to do so may considerably shorten the life of the product. Do not use it in any of the following environments. 1) Location where there is any inflammable gas, inflammable object or explosive 2) Place with potential exposure to radiation 3) Location where radiant heat is added from direct sunlight or other large heat source 5) Location where there is any corrosive gas (sulfuric acid or hydrochloric acid) 7) Location exposed to significant amount of dust, salt or iron powder 8) Location subject to direct vibration or impact For an actuator used in vertical orientation, select a model which is equipped with a brake. If selecting a model with no brake, the moving part may drop when the power is turned OFF and may cause an accident such as an injury or damage on the work piece.

No.	Operation Description	Description
2	Transportation	 When carrying a heavy object, do the work with two or more persons or utilize equipment such as crane. When the work is carried out with 2 or more persons, make it clear who is to be the leader and who to be the follower(s) and communicate well with each other to ensure the safety of the workers. When in transportation, consider well about the positions to hold, weight and weight balance and pay special attention to the carried object so it would not get hit or dropped. Transport it using an appropriate transportation measure. The actuators available for transportation with a crane have eyebolts attached or there are tapped holes to attach bolts. Follow the instructions in the instruction manual for each model. Do not step or sit on the package. Do not put any heavy thing that can deform the package, on it. When using a crane capable of 1t or more of weight, have an operator who has qualifications for crane operation and sling work. When using a crane or equivalent equipments, make sure not to hang a load that weighs more than the equipment's capability limit. Use a hook that is suitable for the load. Consider the safety factor of the hook in such factors as shear strength. Do not leave a load hung up with a crane. Do not stand under the load that is hung up with a crane.
3	Storage and Preservation	 The storage and preservation environment conforms to the installation environment. However, especially give consideration to the prevention of condensation. Store the products with a consideration not to fall them over or drop due to an act of God such as earthquake.
4	Installation and Start	 (1) Installation of Robot Main Body and Controller, etc. Make sure to securely hold and fix the product (including the work part). A fall, drop or abnormal motion of the product may cause a damage or injury. Also, be equipped for a fall-over or drop due to an act of God such as earthquake. Do not get on or put anything on the product. Failure to do so may cause an accidental fall, injury or damage to the product due to a drop of anything, malfunction of the product, performance degradation, or shortening of its life. When using the product in any of the places specified below, provide a sufficient shield. 1) Location where electric noise is generated 2) Location where high electrical or magnetic field is present 3) Location where the product may come in contact with water, oil or chemical droplets

No.	Operation Description	Description
4	Installation and Start	 (2) Cable Wiring Use our company's genuine cables for connecting between the actuator and controller, and for the teaching tool. Do not scratch on the cable. Do not bend it forcibly. Do not pull it. Do not coil it around. Do not insert it. Do not put any heavy thing on it. Failure to do so may cause a fire, electric shock or malfunction due to leakage or continuity error. Perform the wiring for the product, after turning OFF the power to the unit, so that there is no wiring error. When the direct current power (+24V) is connected, take the great care of the directions of positive and negative poles. If the connection direction is not correct, it might cause a fire, product breakdown or malfunction. Connect the cable connector securely so that there is no disconnection or looseness. Failure to do so may cause a fire, electric shock or malfunction of the product. Never cut and/or reconnect the cables supplied with the product for the purpose of extending or shortening the cable length. Failure to do so may cause the product to malfunction or cause fire.
		 (3) Grounding The grounding operation should be performed to prevent an electric shock or electrostatic charge, enhance the noise-resistance ability and control the unnecessary electromagnetic radiation. For the ground terminal on the AC power cable of the controller and the grounding plate in the control panel, make sure to use a twisted pair cable with wire thickness 0.5mm² (AWG20 or equivalent) or more for grounding work. For security grounding, it is necessary to select an appropriate wire thickness suitable for the load. Perform wiring that satisfies the specifications (electrical equipment technical standards). Perform Class D Grounding (former Class 3 Grounding with ground resistance 100Ω or below).

No.	Operation Description	Description
4	Installation and Start	 (4) Safety Measures When the work is carried out with 2 or more persons, make it clear who is to be the leader and who to be the follower(s) and communicate well with each other to ensure the safety of the workers. When the product is under operation or in the ready mode, take the safety measures (such as the installation of safety and protection fence) so that nobody can enter the area within the robot's movable range. When the robot under operation is touched, it may result in death or serious injury. Make sure to install the emergency stop circuit so that the unit can be stopped immediately in an emergency during the unit operation. Take the safety measure not to start up the unit only with the power turning ON. Failure to do so may start up the machine suddenly and cause an injury or damage to the product. Take the safety measure not to start up the machine only with the emergency stop cancellation or recovery after the power failure. Failure to do so may result in an electric shock or injury due to unexpected power input. When the installation or adjustment operation is to be performed, give clear warnings such as "Under Operation; Do not turn ON the power!" etc. Sudden power input may cause an electric shock or injury. Take the measure so that the work part is not dropped in power failure or emergency stop. Wear protection gloves, goggle or safety shoes, as necessary, to secure safety. Do not insert a finger or object in the openings in the product. Failure to do so may cause an injury, electric shock, damage to the product. Failure to do so may cause an injury, electric shock, damage to the product. Failure to do so may cause an injury and cause an evertically oriented actuator, exercise precaution not to pinch your hand or damage the work parts with the actuator dropped by gravity.
5	Teaching	 When the work is carried out with 2 or more persons, make it clear who is to be the leader and who to be the follower(s) and communicate well with each other to ensure the safety of the workers. Perform the teaching operation from outside the safety protection fence, if possible. In the case that the operation is to be performed unavoidably inside the safety protection fence, prepare the "Stipulations for the Operation" and make sure that all the workers acknowledge and understand them well. When the operation is to be performed inside the safety protection fence, the worker should have an emergency stop switch at hand with him so that the unit can be stopped any time in an emergency. When the operation is to be performed inside the safety protection fence, in addition to the workers, arrange a watchman so that the machine can be stopped any time in an emergency. Also, keep watch on the operation so that any third person can not operate the switches carelessly. Place a sign "Under Operation" at the position easy to see. When releasing the brake on a vertically oriented actuator, exercise precaution not to pinch your hand or damage the work parts with the actuator dropped by gravity. * Safety protection Fence : In the case that there is no safety protection

No.	Operation Description	Description
6	Trial Operation	 When the work is carried out with 2 or more persons, make it clear who is to be the leader and who to be the follower(s) and communicate well with each other to ensure the safety of the workers. After the teaching or programming operation, perform the check operation one step by one step and then shift to the automatic operation. When the check operation is to be performed inside the safety protection fence, perform the check operation using the previously specified work procedure like the teaching operation. Make sure to perform the programmed operation check at the safety speed. Failure to do so may result in an accident due to unexpected motion caused by a program error, etc. Do not touch the terminal block or any of the various setting switches in the power ON mode. Failure to do so may result in an electric shock or malfunction.
7	Automatic Operation	 Check before starting the automatic operation or rebooting after operation stop that there is nobody in the safety protection fence. Before starting automatic operation, make sure that all peripheral equipment is in an automatic-operation-ready state and there is no alarm indication. Make sure to operate automatic operation start from outside of the safety protection fence. In the case that there is any abnormal heating, smoke, offensive smell, or abnormal noise in the product, immediately stop the machine and turn OFF the power switch. Failure to do so may result in a fire or damage to the product. When a power failure occurs, turn OFF the power switch. Failure to do so may cause an injury or damage to the product, due to a sudden motion of the product in the recovery operation from the power failure.

No.	Operation Description	Description
8	Maintenance and Inspection	 When the work is carried out with 2 or more persons, make it clear who is to be the leader and who to be the follower(s) and communicate well with each other to ensure the safety of the workers. Perform the work out of the safety protection fence, if possible. In the case that the operation is to be performed unavoidably inside the safety protection fence, prepare the "Stipulations for the Operation" and make sure that all the workers acknowledge and understand them well. When the work is to be performed inside the safety protection fence, basically turn OFF the power switch. When the operation is to be performed inside the safety protection fence, the worker should have an emergency stop switch at hand with him so that the unit can be stopped any time in an emergency. When the operation is to be performed inside the safety protection fence, in addition to the workers, arrange a watchman so that the machine can be stopped any time in an emergency. Also, keep watch on the operation so that any third person can not operate the switches carelessly. Place a sign "Under Operation" at the position easy to see. For the grease for the guide or ball screw, use appropriate grease according to the Instruction Manual for each model. Do not perform the dielectric strength test. Failure to do so may result in a damage to the product. When releasing the brake on a vertically oriented actuator, exercise precaution not to pinch your hand or damage the work parts with the actuator dropped by gravity. The slider or rod may get misaligned OFF the stop position if the servo is turned OFF. Be careful not to get injured or damaged due to an unnecessary operation. Pay attention not to lose the cover or untightened screws, and make sure to put the product back to the original condition after maintenance and inspection works. Use in incomplete condition may cause damage to the product or an injury. * Safety protection Fen
9	Modification and Dismantle	 Do not modify, disassemble, assemble or use of maintenance parts not specified based at your own discretion.
10	Disposal	 When the product becomes no longer usable or necessary, dispose of it properly as an industrial waste. When removing the actuator for disposal, pay attention to drop of components when detaching screws. Do not put the product in a fire when disposing of it. The product may burst or generate toxic gases.
11	Other	 Do not come close to the product or the harnesses if you are a person who requires a support of medical devices such as a pacemaker. Doing so may affect the performance of your medical device. See Overseas Specifications Compliance Manual to check whether complies if necessary. For the handling of actuators and controllers, follow the dedicated instruction manual of each unit to ensure the safety.

Alert Indication

The safety precautions are divided into "Danger", "Warning", "Caution" and "Notice" according to the warning level, as follows, and described in the Instruction Manual for each model.

Level	Degree of Danger and Damage	Sy	/mbol
Danger	This indicates an imminently hazardous situation which, if the product is not handled correctly, will result in death or serious injury.	Â	Danger
Warning	This indicates a potentially hazardous situation which, if the product is not handled correctly, could result in death or serious injury.	Â	Warning
Caution	This indicates a potentially hazardous situation which, if the product is not handled correctly, may result in minor injury or property damage.	Â	Caution
Notice	This indicates lower possibility for the injury, but should be kept to use this product properly.	!	Notice

Handling Precautions

· What to do in case of emergency

If this product is found in a dangerous condition, promptly turn off the power switch on the product as well as power switches of all devices, etc., connected to the product, or unplug all power cables from the power outlets. ("Dangerous condition" refers to a condition where fire or bodily injury may occur due to abnormal generation of heat or smoke, ignition, and so on.)

1. Preparation Before Use

1.1 Operating Environment

The following environment is required to operate this software.

Applicable operating systems	Windows 2000 SP4 or higher, Windows XP SP2 or higher, Windows Vista ^{*1} , Windows 7 ^{*1} (It is recommended that .NET Framework 2.0 or higher is installed.) Note, however, 64-bit version is not supported.
Computer	Personal computer running an applicable operating system (Windows) (A professor of 500 MHz or faster is recommended.)
Keyboard	Keyboard compatible with the personal computer running an applicable operating system (Windows)
Memory	Memory of the size needed to run an applicable operating system (Windows)
Display	XGA (1024x768) or higher
Pointing device	Mouse, etc., and compatible driver
Hard disk	Hard disk of at least 300 MB of free disk space (To use this software, it must be installed on the hard disk.)
COM port	USB port

*1 Supported on version V1.01.00.00 or later.

1.2 Installing This Software

To use this software, it must be installed in the hard disk of a PC. The following explains how to install this software.

- 1.2.1 How to Install the Software/Uninstall the USB Driver on a PC Running Windows XP
 - [1] How to install the MEC PC software
 - (1) When installing from the CD-ROM

Set the CD-ROM containing this software in the CD-ROM drive.

The MEC setup tool will launch automatically.

- * If the MEC setup tool does not launch automatically, click **T** in the CD-ROM. The MEC setup tool will launch.
- (2) When you have downloaded the ZIP file
 - [1] Download the file containing this software "mec_v*_**_**.zip" from IAI's website.
 - [2] Unzip the file using an appropriate tool.
 - [3] Among the extracted files, find the "MECSetupTool.exe" icon.



- [4] Double-clicking
- (3) When you have downloaded the self-extracting file
 - [1] Download the file containing this software "mec_v*_**_**.exe" from IAI's website.
 - [2] Move the downloaded file to the desktop or other location of the PC in which the software will be installed.



[3] Double-click , and the files needed to set up the MEC PC software will be extracted.

Note: This self-extracting file is only available in the Japanese language and can be downloaded from the IAI Japan website. An English version is NOT available.

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Progress Screen during File Extraction

- [4] When all files have been extracted, the MEC setup tool launches automatically.
- [5] Once you have extracted the files and set up the MEC PC software, the "MEC" folder created in the extraction process is no longer necessary. Delete this folder if you won't be using it in the future.
- * "**" in the file name indicates the version number.
 - (4) How to use the MEC setup tool In addition to installing the "MEC PC Software," the MEC setup tool also provides the operating procedure to install the software.

When installing the "USB driver," for example, the "Start the Found New Hardware Wizard" screen opens a new window, as shown below.

While checking the "MEC Setup Tool" page, follow the instructions provided on the "Start the Found New Hardware Wizard" screen.

(Note) If the "MEC Setup Tool" page you must check is overlapping with the "Start the Found New Hardware Wizard" screen, as shown below, click whichever screen you want check or operate on to bring it to the front and then check a desired item or perform a desired operation.

(5) Notes on installing the USB driver

When connecting the PC to multiple MEC controllers, all of the applicable MEC controllers must be connected one by one and the USB driver for each controller installed separately.

To install the USB driver for the second or subsequent MEC controller, click **1** to launch the "MEC Setup Tool."

As you have done for the first MEC controller, install the USB driver according to the onscreen instructions provided by the "MEC Setup Tool."

[Refer to (6), "Starting a MEC setup."]

Note, however, that installation of the following software was completed with the first controller and they need not be installed again:

- Microsoft Windows Installer 3.0
- Microsoft .NET Frame maker 2.0
- MEC PC software

When all USB drivers have been installed, close the setup tool by following the procedure below:

[1] On the page to "Completion check (IAI USB to UART Bridge Controller)," click the [NextPage >] button.



"Completion checkcheck (IAI USB to UART Bridge Controller)" Page



[2] The "MEC PC Software Installation" page appears. Select the "Installation is already complete" check box, and then click the [Close] button.

The "MEC Setup Tool" is closed.



"MEC PC Software Installation" Page

- (6) Starting a MEC setup
 - [1] The "Start MEC Setup Tool" page appears. Click the [Setup started] button. When the [Setup started] button is clicked, the "Found New Hardware Wizard' up to twice" warning screen appears. Click the [OK] button, and the IAI USBv2 will be copied.
 - * If the copying fails, the "Error" screen appears. If this screen appears, copy the IAI USBv2 folder in the Data folder to the PC. Write down the location to which this folder was copied and keep this memo with you, because you will need it on the "Found New Hardware Wizard" screen.

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This tool installs the soft	sara balow.		
USB driver(TALUSE C	omposite Device)		
USB driver(DALUSE to	URR T Bridge Controller)		
Microsoft Windows In	staller 3.0 (Only if not instal	fied)	
Morosoft NET Prane	work 2.0 (Only if not instal	(ed)	
MEC PC software			
Click the "SetupStarts	nd" button.		
	SetupStarted	Manual	Cancel
*A ROP viewer to requires	to open the Operation Ma	mui.	

"Start MEC Setup Tool" Page

Wenning	
1	When the USB driver is installed, two programs ("IAI USB Composite Device" and "IAI USB to UART Bridge Controler") are installed. Accordingly, you must set up "Found New Hardware Wizard" up to twice. Note that if "Found New Hardware Wizard" is aborted, the software won't be installed successfully.

"Found New Hardware Wizard' up to twice" Warning Screen



"Error" Screen

- [2] The "Checking of display of "Wizard"" page appears. Select an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button.
 - * If you don't need an explanation of the "Found New Hardware Wizard" screen, click the [Skip >>] button. A screen showing the "Display of IAI USB storage location" page will appear. On this page, click the [NextPage >] button. The page you will be switched to varies depending on the status of installation.
 - If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [14].
 - If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [20].
 - If the "MEC PC Software Installation" page is currently displayed, proceed to [26].

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"Checking of display of "Wizard"" Page



"Display of IAI USB storage location" Page



[3] The "Connection check" page appears. Connect the MEC controller. If the MEC controller is already connected, unplug the USB connector and then plug it again. When the above operation is complete, click the [Nextpage >] button.



"Connection check" Screen



- [4] The "Website Connection check (IAI USB Composite Device)" page appears. Select "No, not this time" on this "Found New Hardware Wizard" screen, and then click the [Next >>] button. Next, select an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button.
 - * Depending on the settings, this "Found New Hardware Wizard" screen for confirming website connection may not be displayed. If this screen does not appear, proceed to [5].



"Website Connection check (IAI USB Composite Device)" Page

- [5] The "Checking of installation method (IAI USB Composite Device)" page appears. Select "Install from a list or a specific location" on this "Found New Hardware Wizard" screen, and then click the [Next >>] button. Next, select an appropriate option on "MEC Setup Tool" by referring to the red underlined text below, and then click the [NextPage >] button.
 - If you have selected "IAI USB Composite Device," proceed to [6].
 - If you have selected "IAI USB to UART Bridge Controller," proceed to [11].

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Checking of installation method(IA) USB Composite Device)	
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1 Calact the many underscored by a raid has from amount the following others:	
 IAJ USB Composite Device IAJ USB to UART Bridge Controller Select "Install from a list or specific location[Advanced]" on the "Found New Hardware Wizard" screen and dok the "Next >" button. Click the "NextPage >" button on "MEC Setup Tool." 	
(177)::::(< PreviousPage NextPage >: Skp >>	Cancel

"Checking of installation method (IAI USB Composite Device)" Page

- [6] The "Option selection (IAI USB Composite Device)" page appears. Select "Search for the best driver in these locations" on this "Found New Hardware Wizard" screen and select the "Include this location in the search" check box. Enter in the field circled in red on the "Found New Hardware Wizard" screen the file location shown on "MEC Setup Tool", and then click the [Next >>] button. Next, click the [NextPage >] button on "MEC Setup Tool".
 - * If the entered path is wrong, you cannot proceed to the next step.

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	,	

"Option selection (IAI USB Composite Device)" Page



[7] The "Hardware installation (IAI USB Composite Device)" page appears. Click the [Continue Anyway] button on this "Hardware installation" screen. Next, set an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button.

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2.Select the condition of © Displayed © Not displayed © Asked to enter the 3.Clok the "Continue & 4.Clok the "NextPage 3	driver location again. Iyway" button on "Hardware Installation". "button on "MEC Setup Tool."	

"Hardware installation (IAI USB Composite Device)" Page



[8] The "Completion check (IAI USB Composite Device)" page appears. Click the [Finish] button on this "Found New Hardware Wizard" screen. Next, click the [NextPage >] button on "MEC Setup Tool".



"Completion check (IAI USB Composite Device)" Page



- [9] The "Website Connection check (IAI USB to UART Bridge Controller)" page appears. Select "No, not this time" on this "Found New Hardware Wizard" screen, and then click the [Next >] button. Next, select an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button.
 - * Depending on the settings, this "Found New Hardware Wizard" screen for checkin website connection may not be displayed. If this screen does not appear, proceed to [10].



"Website connection check (IAI USB to UART Bridge Controller)" Page



[10] The "Checking of installation method (IAI USB to UART Bridge Controller)" page appears. Select "Install from a list or a specific location" on this "Found New Hardware Wizard" screen, and then click the [Next >>] button. Next, click the [NextPage >] button on "MEC Setup Tool".

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Select "Install from on the "Found New Click the "NextPag	Cat Nets entries (Bet Set) Cent in a lat or specific location(Advanced)' w Hardware Wizard' screen and dick the "Next >" button, is >" button on "MEC Setup Tool."	

"Checking of installation method (IAI USB to UART Bridge Controller)" Page



- [11] The "Option selection (IAI USB to UART Bridge Controller)" page appears. Select "Search for the best driver in these locations" on this "Found New Hardware Wizard" screen and select the "Include this location in the search" check box. Enter in the field circled in red on the "Found New Hardware Wizard" screen the file location shown on "MEC Setup Tool", and then click the [Next >>] button. Next, click the [NextPage >] button on "MEC Setup Tool".
 - * If the entered path is wrong, you cannot proceed to the next step.

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State the recording > button on here a	emp root.		

"Option selection (IAI USB to UART Bridge Controller)" Page



[12] The "Hardware installation (IAI USB to UART Bridge Controller)" page appears. Click the [Continue Anyway] button on this "Hardware installation" screen. Next, set an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button.

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Asked to enter the	driver location again.	
lick the "Continue Ar	iyway" button on "Hardware Installation". "'button on "MEC Setup Tool."	

"Hardware installation (IAI USB to UART Bridge Controller)" Page

- [13] The "Completion check (IAI USB to UART Bridge Controller)" page appears. Click the [Finish] button on this "Found New Hardware Wizard" screen. Next, click the [NextPage .] button on "MEC Setup Tool".
 - If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [14].
 - If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [20].
 - If the "MEC PC Software Installation" page is currently displayed, proceed to [26].

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Not displayed	
3 Click the "Finish" button on "Found New hardware Wizard."	
4 Click the "NextPlace >" button on "MEC Setup Tool."	
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"Completion check (IAI USB to UART Bridge Controller)" Page



[14] If Microsoft .NET Framework 2.0 required by the MEC PC software is not yet installed, the display changes to the "Microsoft Windows Installer 3.0 Installer Launch" page where you can start installing Microsoft Windows Installer 3.0 needed to install Microsoft .NET Framework 2.0. Click the [Start] button on "MEC Setup Tool".



"Microsoft Windows Installer 3.0 Installer Launch" Page



[15] The ""Microsoft Windows Installer 3.0" Installation permitted" page appears. If a "Security Warning" screen is displayed, click the [Run] button and then click the [NextPage >] button on "MEC Setup Tool". If no security warning is displayed, directly click the [NextPage >] button on "MEC Setup Tool".

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1,Check if the "Sec © Displayed © Not displayed 2,Clok the "Run" b 3,Clok the "NextPa	unity Warning" screen is displayed. utton on "Security Warning." ge >"button on "MEC Setup Tool."	

"Microsoft Windows Installer 3.0" Installation permitted" Page


[16] The ""Microsoft Windows Installer 3.0" Setup started" page appears and "Microsoft Windows Installer 3.0 Setup" screen is started. Click the [Next >>] button on this "Microsoft Windows Installer 3.0 Setup" screen. Next, click the [NextPage >] button on "MEC Setup Tool".

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Microsoft Windows Instale	ler 3.0" Setup started	
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1.Click the "Next >" but 2.Click the "NextPage >"	tton on "Microsoft Windows Installer 3,0 Setup Wizard." "'button on "MBC Setup Tool."	

"Microsoft Windows Installer 3.0" Setup started" Page

[17] The ""Microsoft Windows Installer 3.0" Installation started" page appears. Select the "I agree (A)" check box on this "Microsoft Windows Installer 3.0 Setup" screen, and then click the [Next >>] button. Next, click the [NextPage >] button on "MEC Setup Tool".



"Microsoft Windows Installer 3.0" Installation started" Page



[18] The ""Microsoft Windows Installer 3.0" Installing..." page appears. Wait for a while until this "Microsoft Windows Installer 3.0 Setup" screen indicating that the system is being updated changes to a different screen. Once the screen has changed, click the [NextPage >] button on "MEC Setup Tool".

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"Microsoft Windows Installer 3.0" Installing ... " Page



- [19] The ""Microsoft Windows Installer 3.0" Installation complete" page appears. Clear the "Do not restart now" check box on this "Microsoft Windows Installer 3.0 Setup" screen and click the "Finish" button. Microsoft Windows will restart. After Microsoft Windows has restarted, start the MEC setup tool.
 - * The location of the executable file of the MEC setup tool is shown in the MEC setup tool, so check this location before launching the MEC setup tool.



""Microsoft Windows Installer 3.0" Installation complete" Page



[20] Once the MEC setup tool starts, the "Microsoft .NET Framework 2.0 Installer Launch" page appears. Click the [Start] button on "MEC Setup Tool".

T: MFC Setup Tool Ver 1.1.0.0	🛛
1. The installer for "Microsoft .NET Framework 2.0" launches.	
Lick the 'start' button on 'MEL setup Took."	
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"Microsoft .NET Framework 2.0 Installer Launch" Page



[21] The ""Microsoft .NET Framework 2.0" Installation permitted" page appears. If a "Security Warning" screen is displayed, click the [Run] button and then click the [NextPage >] button on "MEC Setup Tool". If no security warning is displayed, directly click the [NextPage >] button on "MEC Setup Tool".

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""Microsoft .NET Framework 2.0" Installation permitted" Page



[22] The ""Microsoft .NET Framework 2.0" Setup started" page appears. Click the [Next > >] button on this "Microsoft .NET Framework 2.0 Setup" screen, and then click the [NextPage >] button on "MEC Setup Tool".

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""Microsoft .NET Framework 2.0" Setup started" Page

[23] The ""Microsoft .NET Framework 2.0" Installation started" page appears. Select the "I accept the terms and the License Agreement" check box on this "Microsoft .NET Framework 2.0 Setup" screen, and then click the [Install >] button. Next, click the [NextPage >] button on "MEC Setup Tool".

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"Microsoft .NET Framework 2.0" Installation started" Page



[24] The ""Microsoft .NET Framework 2.0" Installing..." page appears. Wait for a while until this "Microsoft .NET Framework 2.0 Setup" screen indicating that this software component is being installed changes to a different screen. Once the screen has changed, click the [NextPage>] button on "MEC Setup Tool".

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"Microsoft .NET Framework 2.0" Installing ... " Page



[25] The ""Microsoft .NET Framework 2.0" Installation complete" page appears. Click the [Finish] button on this "Microsoft .NET Framework 2.0 Setup" screen. Next, click the [NextPage >] button on "MEC Setup Tool".

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"Microsoft .NET Framework 2.0" Installation complete" Page



[26] The "MEC PC Software Installation" page appears. Select an appropriate option on "MEC Setup Tool", and then click the [Start] button.



"MEC PC Software Installation" Page

PMEC/AMEC=

- [2] How to uninstall the USB driver
 - [1] While the MEC controller is connected, click the [Uninstall] button on "MEC Setup Tool". The Device Manager will launch. If the Device Manager could not be launched, the "Uninstall_How to display My Computer Properties" page appears first. Display the My Computer Properties screen by following the onscreen instructions.

Next, the "Uninstall_How to Display Device Manager" page appears. Select the "Hardware" tab on the "System Properties" screen, and then click the [Device Manager] button.

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"Uninstall_How to display My Computer Properties" Page



"Uninstall_How to Display Device Manager" Page

PMEC/AMEC

- [2] The "Uninstall_How to Uninstall USB" page appears. Click "+" on the left side of "USB Controllers" to expand the USB controllers. Check if any of the devices has a "!" icon shown next to it.
 - If any device has a "!" icon, right-click the device and select [Uninstall] to delete the device. Next, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.

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ght-dick the displ ok the "Next pag	ay of '1", then left-click "Uninstal" to e >" button on "MEC Setup Tool.") delete the dev	ice assignment	

"Uninstall_How to Uninstall USB" Page

PMEC/AMEC=

- [3] The "Uninstall_How to Uninstall Port" Page appears. Click "+" on the left side of "Ports" to expand the ports. Check if any of the devices has a "!" icon shown next to it.
 - If any device has a "!" icon, right-click the device and select [Uninstall] to delete the device.
 - Next, select an appropriate option on "MEC Setup Tool", and then click the [NextPage >] button. * Once a device with "!" is deleted in step [2], that device will no longer be displayed. Click the



"Uninstall_How to Uninstall Port" Page

[4] The "Checking of display of "Wizard"" page appears and you go back to the start of installation.

PMEC/AMEC

- 1.2.2 How to Install the Software/Uninstall the USB Driver on a PC Running Windows 2000
 - [1] How to install the MEC PC software
 - (1) When installing from the CD-ROM

Set the CD-ROM containing this software in the CD-ROM drive.

The MEC setup tool will launch automatically.

- * If the MEC setup tool does not launch automatically, click **1** in the CD-ROM. The MEC setup tool will launch.
- (2) When you have downloaded the ZIP file
 - [1] Download the file containing this software "mec_v*_**_**.zip" from IAI's website.
 - [2] Unzip the file using an appropriate tool.
 - [3] Among the extracted files, find the "MECSetupTool.exe" icon.
 - [4] Double-clicking The available will aunch the MEC setup tool.
- (3) When you have downloaded the self-extracting file
 - [1] Download the file containing this software "mec_v*_**_**_exe" from IAI's website.
 - [2] Move the downloaded file to the desktop or other location of the PC in which the software will be installed.
 - [3] Double-click **[**], and the files needed to set up the MEC PC software will be extracted.

Note: This self-extracting file is only available in the Japanese language and can be downloaded from the IAI Japan website. An English version is NOT available.



Extracting screen



- [4] When all files have been extracted, the MEC setup tool launches automatically.
- [5] Once you have extracted the files and set up the MEC PC software, the "MEC" folder created in the extraction process is no longer necessary. Delete this folder if you won't be using it in the future.

* "**" in the file name indicates the version number.

PMEC/AMEC

(4) How to use the MEC setup tool

In addition to installing the "MEC PC Software," the MEC setup tool also provides the operating procedure to install the software.

When installing the "USB driver," for example, the "Start the Found New Hardware Wizard" screen opens a new window, as shown below.

While checking the "MEC Setup Tool" page, follow the instructions provided on the "Start the Found New Hardware Wizard" screen.

(Note) If the "MEC Setup Tool" page you must check is overlapping with the "Start the Found New Hardware Wizard" screen, as shown below, click whichever screen you want check or operate on to bring it to the front and then check a desired item or perform a desired operation.

"Found New Hardware" screen	Convertion shed	8001	"MEC Setup Tool" page
Pound New Thirdewar CP2182 U NetWig	B to LART Single Controller		
	Big >>	Cason	

PMECAMEC

(5) Notes on installing the USB driver

When connecting the PC to multiple MEC controllers, all of the applicable MEC controllers must be connected one by one and the USB driver for each controller installed separately.

To install the USB driver for the second or subsequent MEC controller, click **T** to launch the "MEC Setup Tool."

As you have done for the first MEC controller, install the USB driver according to the onscreen instructions provided by the "MEC Setup Tool."

[Refer to (6), "Starting a MEC setup."]

Note, however, that installation of the following software was completed with the first controller and they need not be installed again:

- Microsoft Windows Installer 3.0
- Microsoft .NET Framework 2.0
- MEC PC software

When all USB drivers have been installed, close the setup tool by following the procedure below:

[1] On the page to "Completion check (IAI USB to UART Bridge Controller)," click the [Next page >] button.



"Completion check (IAI USB to UART Bridge Controller)" Page



[2] The "MEC PC Software Installation" page appears. Select the "Installation is already complete" check box, and then click the [Close] button. The "MEC Setup Tool" is closed.

🗈 MFC Setup Tool Ver 1.1.0.0
 MEC Setup Tool Ver 1.1.0.0 The MEC PC software installation starts. Select one of the following options: (Clicking the 'Start' button or 'Close' button closes 'MEC Setup Tool.'') Installation is already complete. 2.Click the 'Start' button on the 'MEC Setup Tool.'' The installer for 'MEC PC software'' launches.
< PreviousPage Start Close

"MEC PC Software Installation" Page

PMEC/AMEC=

- (6) Starting a MEC setup
 - [1] The "Start MEC Setup Tool" page appears. Click the [Setup started] button. When the [Setup started] button is clicked, the "Found New Hardware" up to twice" warning screen appears. Click the [OK] button, and the IAI USBv2 will be copied.
 - * If the copying fails, the "Error" screen appears. If this screen appears, copy the IAI USBv2 folder in the Data folder to the PC. Write down the location to which this folder was copied and keep this memo with you, because you will need it on the "Found New Hardware Wizard" screen.

B MEC Setup Tool Fer 1.1.0.0	_IIIX
This tool installs the software below.	
USB driver(TAI USB Composite Device)	
USB driver(IA) USB to UART Bridge Controller)	
Microsoft Windows Installer 3.0 (Cnly if not installed)	
Microsoft .NET Framework 2.0 (Only if not installed)	
MEC PC software	
Click the "Setup started" button.	
Setup started Manual Cancel	
*A PDP viewer is required to open the Operation Manual.	

"Start MEC Setup Tool" Page

s'arning	
1	When the USB driver is installed, two programs ("IAI USB Composite Device" and "IAI USB to UART Bridge Controller") are installed. Accordingly, you must set up "Found New Hardware" up to twice. Note that if "Found New Hardware" is aborted, the software won't be installed successfully.
	ок



12 Groe	
0	The IAI USB driver could not be copied. Do you want to install the USB driver next? If the "OK" button was clicked — Copy the IAI USB saved in the Data folder to a desired location, and write down that location. If "Cance" was dicked — The dialog stating, "The IAI USB could not be copied" closes. Dick the "Setup started" button on "MBC Setup Tool."
	OK Cancel



PMEC/AMEC

- [2] The "Checking of display of "Wizard" page appears. Select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.
 - * If you don't need an explanation of the "Found New Hardware Wizard," click the [Skip >>] button. A page showing the "Display of IAI USB storage location" will appear. On this page, click the [Next page >] button. The page you will be switched to varies depending on the status of installation.
 - If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
 - If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
 - If the "MEC PC Software Installation" page is currently displayed, proceed to [30].

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"Checking of display of "Wizard"" Page



"Display of IAI USB storage location" Page



[3] The "Connection check" page appears. Connect the MEC controller. If the MEC controller is already connected, unplug the USB connector and then plug it again. When the above operation is complete, click the [Next page >] button.



"Connection check" Page

PMEC/AMEC

- [4] The "Checking during installation (IAI USB Composite Device)" page appears. Click the [Next page >] button on "MEC Setup Tool".
 - ⁷ Depending on the condition, all USB drivers may be installed automatically. If all USB drivers were installed automatically, click the [Skip >>] button to skip the explanation screen for "Found New Hardware."

Click the [Next page >] button on the "Display of IAI USB storage location" page that opened in step [2]. The page you will be switched to varies depending on the status of installation.

- If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
- If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
- If the "MEC PC Software Installation" page is currently displayed, proceed to [30].

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"Checking during installation (IAI USB Composite Device)" Page

PMEC/AMEC=

- [5] The "Files NeededChecking "Files Needed" Wizard (IAI USB Composite Device)" page appears. Check if this "Files Needed" screen is displayed.
 - If this screen is displayed, confirm that the file name with a red underline is slabbus.sys or slabser.sys, and then select an appropriate option on "MEC Setup Tool" and click the [Skip >>] button. On the "Display of IAI USB storage location" page to which the tool has skipped, enter the storage location of the IAI USB in the field circled in red.

Click the [Next page >] button on the "Display of IAI USB storage location" page that opened in step [2]. The page you will be switched to varies depending on the status of installation.

- If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
- If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
- If the "MEC PC Software Installation" page is currently displayed, proceed to [30].
- If none of these screens are displayed, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.

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eck if the "Hies Need lect the condition con	ed" screen is displayed. firmed in 1 from among the following options:	
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di the "Next page >"	button on "MEC Setup Tool."	

"Files Needed Wizard (IAI USB Composite Device)" Page



[6] The "Checking of start of "Found New Hardware" Wizard (IAI USB Composite Device)" page appears. Click the [Next >] button on this "Found New Hardware Wizard" screen. Next, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.



"Checking of start of "Found New Hardware" Wizard (IAI USB Composite Device)" Page



[7] The "Selection of search method (IAI USB Composite Device)" page appears. Select "Find an optimal driver for the device" on this "Found New Hardware Wizard" screen, and then click the [Next >] button. Next, click the [Next page >] button on "MEC Setup Tool".

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Selection of search n	nethod(IALUSB Composite Device)	
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	What do you want the vector do?	
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	< Bash - David	
1.Select "Search fo on the "Found N 2.Click the "Next p	or a suitable driver for my device [recommended]* lew Handware" screen and click the "Next >" button, lage >" button on 'IMEC Setup Tool."	

"Selection of search method (IAI USB Composite Device)" Page



[8] The "Selection of search location (IAI USB Composite Device)" page appears. Select the "Specify a location" check box on this "Found New Hardware Wizard" screen, and then click the [Next >] button. Next, click the [Next page >] button on "MEC Setup Tool".

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2.00k the Triest p		
2.cink the "Next p		

"Selection of search location (IAI USB Composite Device)" Page



[9] The "Specification of search location (IAI USB Composite Device)" page appears. In the field circled in red on this "Found New Hardware Wizard" screen, enter the location of the IAI USB shown in the MEC setup tool. When the location has been entered, click the [Next >] button on the "Found New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".

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1.Enter the following t select the folder who (If you have copied 2.Click the "Next page	ext string in the field inside the red orde, or clob set tils matches the following test string, and the the TAI USE to a desired location, specify the k a >* button on "MEC Setup Tool."	the "Browse" button, en dkk the "Next >" button, cation where it has been copied.

"Specification of search location (IAI USB Composite Device)" Page

PMEC/AMEC=

[10] The "Completion of search (IAI USB Composite Device)" page appears. Click the [Next >] button on this "Fond New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".

MEC Setup Tool Ver 1.1.	8.0	X
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"Completion of search (IAI USB Composite Device)" Page

PMEC/AMEC=

- [11] The "Completion of Wizard (IAI USB Composite Device)" page appears. Select the name indicated by a red underline, and then click the [Finish] button on this "Found New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".
 - If you have selected "IAI USB Composite Device," proceed to [12].
 - If you have selected "IAI USB to UART Bridge Controller," the page you will be switched to varies depending on the status of installation of Microsoft Windows Installer 3.0 or Microsoft .NET Framework 2.0.
 - If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
 - If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
 - If the "MEC PC Software Installation" page is currently displayed, proceed to [30].

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"Completion of Wizard (IAI USB Composite Device)" Page

PMEC/AMEC

- [12] The "Checking during installation (IAI USB to UART Bridge Controller)" page appears. Click the [Next page >] button on "MEC Setup Tool".
 - * Depending on the condition, all USB drivers may be installed automatically. If all USB drivers were installed automatically, click the [Skip >>] button to skip the explanation screen for "Found New Hardware."

Click the [Next page >] button on the "Display of IAI USB storage location" page that opened in step [2].

The page you will be switched to varies depending on the status of installation.

- If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
- If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
- If the "MEC PC Software Installation" page is currently displayed, proceed to [30].

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"Checking during installation (IAI USB to UART Bridge Controller)" Page

PMEC/AMEC=

- [13] The "Files NeededChecking "Files Needed" Wizard (IAI USB to UART Bridge Controller)" page appears. Check if this "Files Needed" screen is displayed.
 - If this screen is displayed, confirm that the file name with a red underline is slabbus.sys or slabser.sys, and then select an appropriate option on "MEC Setup Tool" and click the [Skip >>] button. On the "Display of IAI USB storage location" page to which the tool has skipped, enter the storage location of the IAI USB in the field circled in red.

Click the [Next page >] button on the "Display of IAI USB storage location" page that opened in step [2].

The page you will be switched to varies depending on the status of installation.

- If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
- If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
- If the "MEC PC Software Installation" page is currently displayed, proceed to [30].
- If none of these screens are displayed, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.

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elect the condition of Not displayed Displayed, with slat lick the "Next page	tibus sys or slabser sys underlined in red. >" button on "MEC Setup Tool."	

"Files Needed Wizard (IAI USB to UART Bridge Controller)" Page

PMEC/AMEC

[14] The "Checking of start of "Found New Hardware" Wizard (IAI USB to UART Bridge Controller)" page appears. Click the [Next >] button on this "Found New Hardware Wizard" screen. Next, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.

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"Checking of start of "Found New Hardware" Wizard (IAI USB to UART Bridge Controller)" Page

[15] The "Selection of search method (IAI USB to UART Bridge Controller)" page appears. Select "Find an optimal driver for the device (S)" on this "Found New Hardware Wizard" screen, and then click the [Next >] button. Next, click the [Next page >] button on "MEC Setup Tool".



"Selection of search method (IAI USB to UART Bridge Controller)" Page



[16] The "Selection of search location (IAI USB to UART Bridge Controller)" page appears. Select the "Specify a location" check box on this "Found New Hardware Wizard" screen, and then click the [Next >] button. Next, click the [Next page >] button on "MEC Setup Tool".

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"Selection of search location (IAI USB to UART Bridge Controller)" Page



[17] The "Specification of search location (IAI USB to UART Bridge Controller)" page appears. In the field circled in red on this "Found New Hardware Wizard" screen, enter the location of the IAI USB shown in the MEC setup tool. When the location has been entered, click the [Next >] button on the "Found New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".

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"Specification of search location (IAI USB to UART Bridge Controller)" Page



[18] The "Completion of search (IAI USB to UART Bridge Controller)" page appears. Click the [Next >] button on this "Fond New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".

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"Completion of search (IAI USB to UART Bridge Controller)" Page



- [19] The "Completion of Wizard (IAI USB to UART Bridge Controller)" page appears. Click the [Finish] button on this "Found New Hardware Wizard" screen. Next, click the [Next page >] button on "MEC Setup Tool".
 - If the "Microsoft Windows Installer 3.0 installer" page is currently displayed, proceed to [20].
 - If the "Microsoft .NET Framework 2.0 installer" page is currently displayed, proceed to [25].
 - If the "MEC PC Software Installation" page is currently displayed, proceed to [30].

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"Completion of Wizard (IAI USB to UART Bridge Controller)" Page



[20] If Microsoft .NET Framework 2.0 required by the MEC PC software is not yet installed, the display changes to the "Microsoft Windows Installer 3.0 Installer Launch" page where you can start installing Microsoft Windows Installer 3.0 needed to install Microsoft .NET Framework 2.0. Click the [Start] button on "MEC Setup Tool".

By MEE Setup Tool Yer 1.1.0.0	_LIX
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s Province proce Start	Close

"Microsoft Windows Installer 3.0 Installer Launch" Page


[21] The ""Microsoft Windows Installer 3.0" Setup started" page appears and "Microsoft Windows Installer 3.0 Setup" is started. Click the [Next >] button on this "Microsoft Windows Installer 3.0 Setup" screen. Next, click the [Next page >] button on "MEC Setup Tool".

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"Microsoft Windows Installer 3.0" Setup started	
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Te current of the manufacture of the second	
1.Click the "Next >" button on "Microsoft Windows Installer 3.0 Setup Wizard." 2.Click the "Next page >" button on "MEC Setup Tool."	
Longia Chance (1971 Nest page > Skp >> Can	×

"Microsoft Windows Installer 3.0" Setup started" Page

[22] The ""Microsoft Windows Installer 3.0" Installation started" page appears. Select the "I agree" check box on this "Microsoft Windows Installer 3.0 Setup" screen, and then click the [Next >] button. Next, click the [Next page >] button on "MEC Setup Tool".

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""Microsoft Windows Installer 3.0" Installation started" Page



[23] The ""Microsoft Windows Installer 3.0" Installing..." page appears. Wait for a while until this "Microsoft Windows Installer 3.0 Setup" screen indicating that the system is being updated changes to a different screen. Once the screen has changed, click the [Next page >] button on "MEC Setup Tool".

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1. Microsoft Windows Instal Please wat for a while 2.Once the deplay changes	ler 3.0 Setup Wizard" is installing "Microsoft Windows Installer to this screen, click the "Next page >" button on the "MEC	: 3.0° Setup Tool.

"Microsoft Windows Installer 3.0" Installing ... " Page

- [24] The ""Microsoft Windows Installer 3.0" Installation complete" page appears. Clear the "Do not restart now" check box on this "Microsoft Windows Installer 3.0 Setup" screen and click the [Finish] button. Microsoft Windows will restart. After Microsoft Windows has restarted, start the MEC setup tool.
 - * The location of the executable file of the MEC setup tool is shown in the MEC setup tool, so check this location before restarting the MEC setup tool.

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1.Clear the 'Do not res and then click the 'Fir Windows is restarted. 2.After Windows has w First, the installer laur (The eve file of 'MEC	tart now [®] check box ish" button. started, launch "MB chiscreen opens. Setup Toof' is in the	under "Microsoft Win C Setup Tool." a location below.)	dows Installer 3.0 Se	tup Wizard,"
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			42	

""Microsoft Windows Installer 3.0" Installation complete" Page



[25] Once the MEC setup tool starts, the "Microsoft .NET Framework 2.0 Installer Launch" page appears. Click the [Start] button on "MEC Setup Tool".

B MEE Setup Tool Yer 1.1.0.0	
1.The installer for "Microsoft .NET Framework 2.0" launches.	
Glok the "Start" button on "MEC Setup Tool."	
s Provins page Start	t Close

"Microsoft .NET Framework 2.0 Installer Launch" Page

[26] The ""Microsoft .NET Framework 2.0" Setup started" page appears. Click the [Next >] button on this "Microsoft .NET Framework 2.0 Setup" screen, and then click the [Next page >] button on "MEC Setup Tool".

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""Microsoft .NET Framework 2.0" Setup started" Page



[27] The ""Microsoft .NET Framework 2.0" Installation started" page appears. Select the "laccept the terms of the License Agreement" check box on this "Microsoft .NET Framework 2.0 Setup" screen, and then click the [Install >] button. Next, click the [Next page >] button on "MEC Setup Tool".



"Microsoft .NET Framework 2.0" Installation started" Page

[28] The ""Microsoft .NET Framework 2.0" Installing..." page appears. Wait for a while until this "Microsoft .NET Framework 2.0 Setup" screen indicating that this software component is being installed changes to a different screen. Once the screen has changed, click the [Next page >] button on "MEC Setup Tool".

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"Microsoft .NET Framework 2.0" Installing ... " Page



[29] The ""Microsoft .NET Framework 2.0" Installation complete" page appears. Click the [Finish] button on this "Microsoft .NET Framework 2.0 Setup" screen. Next, click the [Next page >] button on "MEC Setup Tool".

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"Microsoft .NET Framework 2.0" Installation complete" Page

[30] The "MEC PC Software Installation" page appears. Select an appropriate option on "MEC Setup Tool", and then click the [Start] button.

글글MEC Setup Tool Ver 1.1.0.0	<u>×</u>
1.The MEC PC software installation starts. Select one of the following options: (Cloking the "Start" button or "Close" button closes "MEC Setup Tool.")	
Installation of the MEC PC software starts.	
 Installation is already complete. 	
 Cick the "Start" button on the "MEC Setup Tool." The installer for "MEC PC software" launches. 	
< Previous page Start	Close

"MEC PC Software Installation" Page

- [2] How to uninstall the USB driver
 - While the MEC controller is connected, click the [Uninstall] button on "MEC Setup Tool". The Device Manager will launch. If the Device Manager could not be launched, the "Uninstall_How to display My Computer Properties" screen appears first.
 Display the "My Computer Properties" page by following the onscreen instructions.
 Next, the "Uninstall_How to Display Device Manager" page appears. Select the "Hardware" tab on the "System Properties" screen, and then click the [Device Manager] button.

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	20 Parts Team Team Team Team Team Team Team Team		
Liligheddi 7% Comp. 2005 the Next Jage	er," and then lath-dol. "Properties." " button on "MBC Setup Tool."		
Steen 1	(Revealings)	1280 (Carlosi

"Uninstall_How to display My Computer Properties" Page



"Uninstall_How to Display Device Manager" Page

PMEC/AMEC====

- [2] "Uninstall_How to Uninstall" page apperas. Click "+" on the left side of "Other devices" to expand the other devices. Check if any of the devices has a "!" icon shown next to it.
 - If any device has a "!" icon, right-click the device and select [Uninstall] to delete the device.
 - Next, select an appropriate option on "MEC Setup Tool", and then click the [Next page >] button.

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"Other devices" on "Device Manager" expa Jaryed in confirmed in 1 from among the following o yed	nds "Other devices. xptions:	
	ACTIONS AND	With the second seco

"Uninstall_How to Uninstall" page

[3] The "Checking of display of "Wizard"" page appears and you go back to the start of installation.

- 1.2.3 How to Install the Software/Uninstall the USB Driver on a PC Running Windows Vista
 - [1] How to install the MEC PC software
 - (1) When installing from the CD-ROM

Set the CD-ROM containing this software in the CD-ROM drive.

The MEC setup tool will launch automatically.

- * If the MEC setup tool does not launch automatically, click **a** in the CD-ROM. The MEC setup tool will launch.
- (2) When you have downloaded the ZIP file
 - [1] Download the file containing this software "mec_v*_**_**.zip" from IAI's website.
 - [2] Unzip the file using an appropriate tool.
 - [3] Among the extracted files, find the "MECSetupTool.exe" icon.



- [4] Double-clicking **[]** a will launch the MEC setup tool.
- (3) When you have downloaded the self-extracting file
 - [1] Download the file containing this software "mec_v*_**_**.exe" from IAI's website.
 - [2] Move the downloaded file to the desktop or other location of the PC in which the software will be installed.



* If the "User Account Control" screen is displayed, click [Allow].



"User Account Control" Screen

[3] Double-click [], and the files needed to set up the MEC PC software will be extracted.

Note: This self-extracting file is only available in the Japanese language and can be downloaded from the IAI Japan website. An English version is NOT available.

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and the second	1.1021-10 (二本+2地址

Progress Screen during File Extraction

- [4] When all files have been extracted, the MEC setup tool launches automatically.
- [5] Once you have extracted the files and set up the MEC PC software, the "MEC" folder created in the extraction process is no longer necessary. Delete this folder if you won't be using it in the future.
- "**" in the file name indicates the version number.
 - (4) How to use the MEC setup tool

In addition to installing the "MEC PC Software," the MEC setup tool also provides the operating procedure to install the software.

When you install an "USB driver," for example, as shown in the figure below, the "Update Driver Software" screen is displayed in a separate window.

While checking the "MEC Setup Tool" page, perform the steps on the "Update Driver Software" screen as instructed.

If the "MEC Setup Tool" page to verify the setup and the "Update Driver Software" screen to (Note) perform an operation are overlapping each other as shown in the figure below, click the screen for verification or the screen for operation to bring it to the front, and then verify the setup or perform an operation.

"Update Driver Software"		"MEC Setup Tool" page
	Note If you want to approximate advance Note 1 Sector approximate for your want to prove advance Note 2 Sector approximate for provide that Note 3 Sector approximate for provide that Note 4 Sector approximate for provide that Note 5 Sector approximate for provide that Note 6 Sector approximate for provide that Note 8 Sector approximate for provide that Note	



(5) Notes on installing the USB driver

When connecting the PC to multiple MEC controllers, all of the applicable MEC controllers must be connected one by one and the USB driver for each controller installed separately.

To install the USB driver for the second or subsequent MEC controller, click **1** to launch the "MEC Setup Tool."

As you have done for the first MEC controller, install the USB driver according to the onscreen instructions provided by the "MEC Setup Tool."

[Refer to (6), "Starting a MEC setup."]

Note, however, that installation of the following software was completed with the first controller and they need not be installed again:

MEC PC software

When all USB drivers have been installed, close the setup tool by following the procedure below:

[1] The "Completion of driver update (IAI USB to UART Bridge Controller)" page appears. Click the [Close] button on the "Update Driver Software" screen. Select an option on "MEC Setup Tool", and click the [Next page >] button.



"Completion of driver update (IAI USB to UART Bridge Controller)" Page

[2] The "MEC PC Software Installation" page appears.

Select the "Installation is already complete" check box, and then click the [Close] button. The "MEC Setup Tool" is closed.

MEC Setup Tool Ver 1.1.4.0	- - X
 1. The MEC PC software installation starts. Select one of the following options: (Clicking the "Start" button or "Close" button closes "MEC Setup Tool.") Installation of the MEC PC software starts. Installation is already complete. 2. Click the "Start" button on the "MEC Setup Tool." The installer for "MEC PC software" launches. 	
*When you will use MEC which does not update the driver,check the driver software version. (You can confirm a driver update procedure with "MEC Setup Tool.")	
< Previous page Start Clos	se

"MEC PC Software Installation" Page

- (6) Starting a MEC setup
 - [1] The "Start MEC Setup Tool" page appears. Click the [Setup started] button. When the [Setup started] button is clicked, the IAI USBv3 will be copied.
 - * If the copying fails, the "Error" screen appears. If this screen appears, copy the IAI USBv3 folder in the Data folder to the PC. Write down and keep the location where the folder was saved as it may be required during a driver software update.
 - * The page you move to after clicking the [Setup started] button varies depending on the installation status.
 - If the "Warning (IAI USBv1)" page is displayed, proceed to [2].
 - If the "Warning (IAI USBv2)" page is displayed, proceed to [6].
 - If the "IAI Corporation USB to UART Bridge Controller Driver Installer" page is displayed, proceed to [12].
 - If the "Connection check" page is displayed, proceed to [15].

MEC Setup Tool Ver 1.1.4.0			
This tool installs the s USB driver(IAI Cor MEC PC software	oftware below. poration USB to UART Bridge (Controller)	
Click the "Setup sta	arted" button.		
	Setup started	Manual	Cancel
*A PDF viewer is requ	ired to open the Operation Mar	nual.	

"Start MEC Setup Tool" Page



"Error" Screen



"Warning (IAI USBv1)" Screen



"Warning (IAI USBv2)" Screen

- [2] In case USBv1 is installed, "Warning (IAI USBv1)" screen will show up. Click on [Yes] button in "Warning (IAI USBv1)" screen.
- [3] The "Programs and Features" in the control panel starts and "Process of uninstallation" page opens. In the list of "Programs and Features", find "IAI USB to UART Bridge Controller" and double click on it. If "User Account Control" screen is appeared at this time, click on [Continue] button. Next, click the [Next page >] button on "MEC Setup Tool".



"Process of uninstallation" Page



[4] The "Check of uninstallation" page appears. Click the [Yes] button on the "Notification" screen, and then click the [Next page >] button on "MEC Setup Tool".

E MEC Setup Tool Ver 1.1.4	.0	
Check of uninstallation		
ſ	Notification	
	Ready to uninstall JAJ USB to UART Bridge Controller Driver?	
	<u>Yes</u> <u>N</u> o	
1.Click the "Yes" but 2.Click the "Next pag	ton on "Notification." je >" button on "MEC Setup Tool."	
Uninstall	< Previous page Next page > Skip >>	Cancel

"Process of uninstallation" Page

[5] The "Uninstall Successful" page appears. Click the [OK] button on the "Notification" screen, and then click the [Next page >] button on "MEC Setup Tool". Proceed to [12].



"Uninstall Successful" Page

- [6] In case USBv2 is installed, "Warning (IAI USBv2)" screen will show up. Click on [Yes] button in "Warning (IAI USBv2)" screen.
- [7] The "Program and Features" of the control panel will launch and the "Uninstall Successful" page appears.

In the list of "Programs and Features", select "IAI USB to UART Bridge Controller (Driver Removal)" and double click on it. If "User Account Control" screen is appeared at this time, click on [Continue] button. Next, click the [Next page >] button on "MEC Setup Tool".

	lauon		
	🕒 🗢 🖻 « Programs and I	Features - 49 Search	Q
	Tasks View installed updates Get new programs online at Windows Marketplace	Uninstall or change a program To uninstall a program, select it from the list and then click "Uninstall", "Change", or "Repair".	
	View purchased software (digital locker) C Turn Windows features on or off	Criganize Controller (Driver Removal)	0
	1	x	
1.Double click th 2.If "User Acco (Standard use	e "IAI USB to UART Br unt Control" is displayed r input the administrator t page >" button on "M	idge Controller(Driver Removal)." , click the "Continue" button on "User password, and then click the "OK" b IEC Setup Tool."	Account Control." utton.)
3.Click the "Nex			
3.Click the "Nex			
3.Click the "Nex			

"Uninstall Successful" Page

[8] The "IAI USB to UART Bridge Controller Driver Uninstaller" page appears. Click the [Uninstall] button on the "IAI USB to UART Bridge Controller Driver Uninstaller" screen, and then click the [Next page >] button on "MEC Setup Tool".

I MEC Setup Tool Ver 1.1.4.0	
IAI USB to UART Bridge Controller Driver Uninstaller	
S IAI USB to UART Bridge Controller Driver Uninstaller	
NAI Corporation	
Installation Location: Driver Version 5.4.29	
Unistal Cancel	
1 Click the "Uninstall" button on "IAI USB to UART Bridge Controller Driver Uninstaller "	
2.Click the "Next page >" button on "MEC Setup Tool."	
Uninstall < Previous page Next page > Skip >>	Cancel

"IAI USB to UART Bridge Controller Driver Uninstaller" Page

- [9] The "Checking of display of Error" page appears. Check if this "Error" screen is displayed.
 - If it is displayed, click the [Yes] button on the "Error" screen, and then click the [Next page >] button on "MEC Setup Tool".
 - If it does not appear, click the [Next page >] button on "MEC Setup Tool".

EC Setup Tool Ver 1.1.4.0	X
Checking of display of "Error"	
Error	
Some of the subdirectories created in C-\\Program Files\IANAI USBvZ\Vista-7 could not removed during the uninstallation.	
Do you want to continue to uninstall the rest of the driver package:	
<u>Yes</u> No	
1.Check if the "Error" screen is displayed.	
Select the condition confirmed in 1 from among the following options:	
 Displayed 	
C Not displayed	
3.Click the "Yes" button on "Error."	
4.Click the "Next page >" button on "MEC Setup Tool."	
Uninstall < Previous page Next page > Skip >>	Cancel

"Checking of display of Error" Page

- [10] The "Checking of restart" page appears. Check if this "Microsoft Windows" screen is displayed.
 If it does not appear, click the [Next page >] button on "MEC Setup Tool". Proceed to [11].
 - If it is displayed, click the [Restart Now] button on the "Microsoft Windows" screen. After Windows is restarted, start the MEC setup tool.
 When starting up MEC Setup Tool after a reboot, "IAI Corporation USB to UART Bridge Controller Driver Installer" will appear. Proceed to [12].
 - * The location of the MEC setup tool execution file is displayed in the MEC setup tool. Check it before restarting Windows.

. MEC Setup Tool Ver 1.1	L.4.0			
Checking of restart				
	r			
	Microsoft Windows		<u>×</u>	
	You must restart changes	your computer to	apply these	
	Before restarting, save	any open files and close	e all programs.	
		Restart Now	Restart <u>L</u> ater	
1.Check if the "Mic 2.Select the conditi C Not displayed	rosoft Windows" screen on confirmed in 1 from a	is displayed. among the following c	pptions:	
 Displayed Click the "Restart Windows is restar 4.After Windows have 	Now" button on "Micros ted. as restarted, launch "ME	soft Windows." C Setup Tool."		
First, the installati (The exe file of "	on screen for IAI USB o MEC Setup Tool" is in th	pens. e location below.)		
Uninstall	< Previous page	Next page >	Skip >>	Cancel

"Checking of restart" Page

[11] The "Uninstall Successful" page appears.

Click the [OK] button on the "Notification" screen, and then click the [Next page >] button on "MEC Setup Tool".

MEC Setup Tool Ver 1.1.4.0 Uninstal Successful Success Driver has been successfully 1.Click the "OK" button on "Success." 2.Click the "Next page >" button on "MEC Setup Tool."	uninstalled
Uninstall < Previous page Next page >	Skip >> Cancel

"Uninstall Successful" Page



[12] The "IAI Corporation USB to UART Bridge Controller Driver Installer" page appears. Click the [Install] button on the "IAI Corporation USB to UART Bridge Controller Driver Installer" screen, and then click the [Next page >] button on "MEC Setup Tool".

	🖟 IAI Corporation USB to UART Bridge Controller Driver Installer	
	IAI Corporation IAI Corporation USB to UART Bridge Controller Installation Instation	
	Chance Instal Location	
1.Click the "Ins 2.Click the "Ne	al" button on "IAI Corporation USB to UART Bridge Controller Driver Installer." ; page >" button on "MEC Setup Tool."	
1.Click the "Ins 2.Click the "Ne	all" button on "IAI Corporation USB to UART Bridge Controller Driver Installer." page >" button on "MEC Setup Tool."	

"IAI Corporation USB to UART Bridge Controller Driver Installer " Page

- [13] The "Checking of restart" page appears. Check if this "Microsoft Windows" screen is displayed.
 - If it does not appear, click the [Next page >] button on "MEC Setup Tool". Proceed to [14].
 - If it is displayed, click the [Restart Now] button on the "Microsoft Windows" screen. After Windows is restarted, start the "MEC Setup Tool".
 When starting up "MEC Setup Tool" after a reboot, "Connection check" will appear. Proceed to [15].
 - * The location of the "MEC Setup Tool" execution file is displayed in the "MEC Setup Tool". Check it before restarting Windows.

Microsoft Windows		
You must restart your computer to changes	o apply these	
Before restarting, save any open files and clo	ose all programs.	
Restart Now	Restart Later	

"Checking of restart" Page



[14] The "Install Successful" page appears. Click the [OK] button on the "Success" screen, and then click the [Next page >] button on "MEC Setup Tool".

	Success X Installation completed successfully OK	
1.Click the "OK" buttor 2.Click the "Next page	n on "Success." >" button on "MEC Setup Tool."	

"Install Successful" Page

[15] When the MEC setup tool is started, the "Connection check" page appears. Connect a MEC controller. If a MEC controller is already connected, remove the USB cable and insert it again. When these operations are completed, click the [Next page >] button.



"Connection check" Page

- [16] The "Found New Hardware (IAI USB to UART Bridge Controller)" page appears. Confirm that the "Found New Hardware" screen is displayed.
 - If it is displayed, click the [Cancel] button on the "Found New Hardware" screen, and then click the [Next page >] button of the MEC PC software.
 - If it is not displayed, click the [Next page >] button on "MEC Setup Tool".



"Found New Hardware (IAI USB to UART Bridge Controller)" Page

- [17] The Device Manager will launch and the "How to start driver update (IAI USB to UART Bridge Controller)" page appears.
 - If "CP2102 USB to UART Bridge Controller" is displayed in "Other Devices", right-click "CP2102 USB to UART Bridge Controller" and click "Update Driver Software." Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [19].
 - If "IAI USB to UART Bridge Controller" is displayed in "Port (COM and LPT)", right-click "IAI USB to UART Bridge Controller" and left-click "Property".

Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [18].

• In any cases other than above, there may be a concern that the connection between MEC and the PC is not properly established.

Select an option on "MEC Setup Tool", and then click the [Next page >] button. Go back to [15].

File Action: Year: Hot (the equilibrium of the second sec	ین ۹۶ ۹۵ Inne Inoice	
■ Bill 129P has hold conferent ■ ■ Conferent ■ □ ■ Conferent ■ □ ■ Conferent ■ □ ■ Conferent ■ □ ■	llen devices	
Light Mass Mennge Controlls Light Mass Mennge Controlls Light Mass Mennge Controlls Light Menn Adapted Light Menn Adapted Light Menn Adapted Light Mennge Adapted	Control Update Driver Software_ Disable United United San for hardware changes Properties	
Launches the Update Driver Software V	Wicard for the selected	
Check if "CP2102 USB to UART Bridge Co. Select the condition confirmed in 1 from al © "CP2102 USB to UART Bridge Controller" ("IAI USB to UART Bridge Controller" is a Other than those above Right-cick "Dydate Driver Software."	Introller" is displayed under "Other imong the following options: " is displayed under "Other device displayed under "Ports(COM & LP Controller," and then	devices." 25." T)."

"How to start driver update (IAI USB to UART Bridge Controller)" Page

- [18] The "Checking of Driver Versiton" page appears. Click on "Driver" tab in "Property of IAI USB to UART Bridge Controller" screen to check the version.
 - If the version is 6.5.0.0 or later, select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [22].
 - If the version is earlier than 6.5.0.0, click on [Update Driver...] button.
 Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [19].

hecking of Driver Ver	sion			
	IAI USB to UART Bridge Co	ntroller (COM4) Properties	2 ×	
	General Port Settings	nver Details Power Manage	ement	
	IAI USB to UAR	T Bridge Controller (COM4)		
	Driver Provider	IAI Corporation		
	Driver Date:	9/28/2011		
	Driver Version:	6.5.0.0		
	Digital Signer:	microsoft windows hardware	e compatibility publisi	
	Driver Details	To view details about the drive	er files.	
	Update Driver	To update the driver software	for this device.	
	Roll Park Finner	If the device fails after updatin	g the driver, roll	
1.Click the "Driver" t "IAI USB to UART 2.Check if "6.5.0.0" 3.Select the conditio	ab (Red frames part in Bridge Controller Prop is displayed on the iter n confirmed in 2 from	n a figure) on erties." m of the "Driver Versi among the following o	on." ptions:	
 Displayed Not displayed 				
4.Click the "Update I "IAI USB to UART 5.Click the "Next par	Driver" button on Bridge Controller Prope ge >" button on "MEC	erties." Setup Tool."		

"Checking of Driver Version" Page



[19] The "Select driver update method (IAI USB to UART Bridge Controller)" page appears. On the "Update Driver Software" screen, click the [Browse my computer for driver software] button. Click the [Next page >] button on "MEC Setup Tool".



"Select driver update method (IAI USB to UART Bridge Controller)" Page

- [20] The "Selection of driver software (IAI USB to UART Bridge Controller)" page appears. Enter the file save location that is displayed in the MEC setup tool in the area circled in red on the "Update Driver Software" screen, and then click the [Next] button. Click the [Next page >] button on "MEC Setup Tool".
 - * If incorrect characters are entered, you cannot proceed to the next step.

election of driver	software(IALUSB to UART Bridge Controller)
	🚱 👃 Updata Driver Schwere - CP2002 USB in USBIT Bridge Constrains
	Drowse for driver software on your computer
	Scapelor ale and an initial leastern
	Let me pick from a list of device drivers on my computer This is will now insultable along and any computer with the driver, and all how software in the same origing in the drive.
	[jim [.Cacel.]
1.Enter the fold select the fold (If you have 2.Click the "Ne	wing text string in the field inside the red circle, or click the "Brows" button, ler whose title matches the following text string, and then click the "Next >" button. capied the TAI USB to a desired lacation, specify the location where it has been capied.) it page >" button on "MEC Setup Tool."
1.Enter the fold select the fold (If you have 2.Click the "Ney	owing text string in the field inside the red circle, or click the "Browse" button, ler whose tile matches the following text string, and then click the "Next >" button. copied the FAI USB to a desired location, specify the location where it has been copied.) at page >" button on "MEC Setup Tool."
1.Enter the fold select the fold (If you have 2.Click the "Ney	wing text string in the field inside the red circle, or click the "Browse" button, ler whose tile matches the following text string, and then click the "Next >" button. capied the TAI USB to a desired location, specify the location where it has been capied.) it page >" button on "MEC Setup Tool."
1.Enter the fold select the fold (If you have 2.Click the "Nex	wing text string in the field inside the red circle, or click the "Browse" button, ler whose title matches the following text string, and then click the "Next >" button. capied the IAT USB to a desired location, specify the location where it has been capied.) it page >" button on "MEC Setup Tool."

"Selection of driver software (IAI USB to UART Bridge Controller)" Page



[21] The "Completion of driver update (IAI USB to UART Bridge Controller)" page appears. Click the [Close] button on the "Update Driver Software" screen. Select an option on "MEC Setup Tool", and click the [Next page >] button.

ompletion of driver	update(IAI USB to UART Bridge Controller)	
	🕞 👖 Updata Dinver Sattware - 14/LUSB to UART Bindge Contreller (COMB)	
	Windows has successfully updated your driver software	
	Windows has finished installing the driver software for this device:	
	121 USB to UJRT Elidge Controller	
	Close	
1 Check if the "Wir	dowe has successfully undated your driver software" is displayed	
1.Check if the "Wir 2.Select the conditi © Updated © Not updated	ndows has successfully updated your driver software" is displayed.	
1.Check if the "Wir 2.Select the conditi © Updated © Not updated 3.Click the "Close" The driver softwa	ndows has successfully updated your driver software" is displayed. ion confirmed in 1 from among the following options: button on "Update Driver Software."	
1. Check if the "Wir 2. Select the conditi © Updated © Not updated 3. Click the "Close" The driver softwa 4. Click the "Next p	ndows has successfully updated your driver software" is displayed. ion confirmed in 1 from among the following options: button on "Update Driver Software," are has been updated. wage >" button on "MEC Setup Tool."	
1. Check if the "Wir 2. Select the conditi © Updated © Not updated 3. Click the "Close" The driver softwa 4. Click the "Next p	ndows has successfully updated your driver software" is displayed. ion confirmed in 1 from among the following options: button on "Update Driver Software," are has been updated. age >" button on "MEC Setup Tool."	
1.Check if the "Wir 2.Select the conditi © Updated © Not updated 3.Click the "Close" The driver softwa 4.Click the "Next p	ndows has successfully updated your driver software" is displayed. ion confirmed in 1 from among the following options: button on "Update Driver Software." are has been updated. age >" button on "MEC Setup Tool."	
1.Check if the "Wir 2.Select the condit Cupdated C Not updated 3.Click the "Close" The driver softwa 4.Click the "Next p	ndows has successfully updated your driver software" is displayed. ion confirmed in 1 from among the following options: button on "Update Driver Software," are has been updated. age >" button on "MEC Setup Tool."	

"Completion of driver update (IAI USB to UART Bridge Controller)" Page

[22] The "MEC PC Software Installation" page appears. Select an option on "MEC Setup Tool", and then click the [Start] button. The MEC PC software installer will launch, and the "MEC Setup Tool" will be closed.

MEC Setup Tool Ver 1.1.4.0		
 The MEC PC software installation Select one of the following options (Clicking the "Start" button or "Clo: [©] Installation of the MEC PC softs [©] Installation is already complete. Click the "Start" button on the "M The installer for "MEC PC software 	starts. se" button closes "MEC Setup Tool.") vare starts. EC Setup Tool." " banches.	
*When you wil use MEC which does (You can confirm a driver update	not update the driver,check the driver sol procedure with "MEC Setup Tool.")	ftware version.
	< Previous page Start	Close

"MEC PC Software Installation" Page

- [2] How to uninstall the USB driver
 - [1] While the MEC controller is connected, click the [Uninstall] button on "MEC Setup Tool". The Device Manager will launch. If the Device Manager could not be launched, the "Uninstall_How to display My Computer Properties" page appears first. Display the My Computer Properties screen by following the onscreen instructions. Next, the "Uninstall_How to Display Device Manager" page appears. Click the [Device Manager] button.

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1.Rgbt-ckk "Camputer," and the 2.Ook the "Next page >" factor	Noerin Inflick Roporties." on "MEC Setup Taul."	

"Uninstall_How to display My Computer Properties" Page



"Uninstall_How to Display Device Manager" Page



[2] The Device Manager launches, and the "Uninstall_How to Uninstall USB" page appears. Right-click "CP2102 USB to UART Bridge Controller," and then click "Uninstall" to delete the USB driver assignment. Click the [Next page >] button on "MEC Setup Tool".

<pre>when View Met View View View View View View View View</pre>	Ei Device Manager		
with the second seco	File Action View Help		
<pre>update the second /pre>	(**) [[] [] [] [] [] [] [] [] [] [] [] [] []	1 1 10	
" "	⊕ 2 House Instruction Decision ⊕ 2 House Instruction Decision ⊕ 2 House Instruction Construction ⊕ 2 House Instruction Construction ⊕ 2 House Instruction ⊕ 2 House Instructio	ces Inly PCLE Gigaleta, Bithernet NBC (HUIS 6.0) Disclote	
eck if "CP2102 USB to UART Bridge Controler" is displayed under "Other devices." lect the condition confirmed in 1 from among the following options: "CP2102 USB to UART Bridge Controler" is displayed. "CP2102 USB to UART Bridge Controler" is not displayed. "Other devices" is not displayed. "Other devices" is not displayed. phr-cick "CP2102 USB to UART Bridge Controler," and then -cick "Uninstal" to delete "CP2102 USB to UART Bridge Controler." ck the "Next page >" button on "MEC Setup Lool."	Universal Serial bus controllers	3	
ght-click "CP2102 USB to UART Bridge Controller," and then t-click "Uninstal" to delete "CP2102 USB to UART Bridge Controller." ick the "Next page >" button on "MEC Setup Tool."		ontroller" is displayed under "(Other devices."
	heck if "CP2102 USB to UART Bridge C elect the condition confirmed in 1 from 4 "CP2102 USB to UART Bridge Controlle "CP2102 USB to UART Bridge Controlle "Other devices" is not displayed.	among the following options: er" is displayed.] er" is not displayed.	

"Uninstall_How to Uninstall USB" Page

[3] The "Connection check" page appears, and you will return to the installation.

- 1.2.4 How to Install the Software/Uninstall the USB Driver on a PC Running Windows 7
 - [1] How to install the MEC PC software
 - (1) When installing from the CD-ROM
 - Set the CD-ROM containing this software in the CD-ROM drive.

The MEC setup tool will launch automatically.

- * If the MEC setup tool does not launch automatically, click in the CD-ROM. The MEC setup tool will launch.
- (2) When you have downloaded the ZIP file
 - [1] Download the file containing this software "mec_v*_**_**.zip" from IAI's website.
 - [2] Unzip the file using an appropriate tool.
 - [3] Among the extracted files, find the "MECSetupTool.exe" icon.
 - [4] Double-clicking
- (3) When you have downloaded the self-extracting file
 - [1] Download the file containing this software "mec_v*_**_**.exe" from IAI's website.
 - [2] Move the downloaded file to the desktop or other location of the PC in which the software will be installed.



* If the "User Account Control" screen is displayed, click [Yes].



"User Account Control" Screen

- [3] Double-click **[**], and the files needed to set up the MEC PC software will be extracted.
 - Note: This self-extracting file is only available in the Japanese language and can be downloaded from the IAI Japan website. An English version is NOT available.

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	-	Contraction of the same

Progress Screen during File Extraction

- [4] When all files have been extracted, the MEC setup tool launches automatically.
- [5] Once you have extracted the files and set up the MEC PC software, the "MEC" folder created in the extraction process is no longer necessary. Delete this folder if you won't be using it in the future.
- " "**" in the file name indicates the version number.
 - (4) How to use the MEC setup tool

In addition to installing the "MEC PC Software," the MEC setup tool also provides the operating procedure to install the software.

When you install an "USB driver," for example, as shown in the figure below, the "Update Driver Software" screen is displayed in a separate window.

While checking the "MEC Setup Tool" page, perform the steps on the "Update Driver Software" screen as instructed.

(Note) If the "MEC Setup Tool" page to verify the setup and the "Update Driver Software" screen to perform an operation are overlapping each other as shown in the figure below, click the screen for verification or the screen for operation to bring it to the front, and then verify the setup or perform an operation.

	And the second s	"MEC Setup Tool"
"Update Driver Software" screen	Control together first together to the second	page
	NEW NEW NEW	

(5) Notes on installing the USB driver

When connecting the PC to multiple MEC controllers, all of the applicable MEC controllers must be connected one by one and the USB driver for each controller installed separately.

To install the USB driver for the second or subsequent MEC controller, click

As you have done for the first MEC controller, install the USB driver according to the onscreen instructions provided by the "MEC Setup Tool."

[Refer to (6), "Starting a MEC setup."]

Note, however, that installation of the following software was completed with the first controller and they need not be installed again:

MEC PC software

When all USB drivers have been installed, close the setup tool by following the procedure below:

[1] The "Completion of driver update (IAI USB to UART Bridge Controller)" page appears. Click the [Close] button on the "Update Driver Software" screen. Select an option on "MEC Setup Tool", and click the [Next page >] button.

	update(IAI USB to UART Bridge Controller)	
	I Update Driver Activities of 20 USA to USA's and percentical en (COM)	
	Windows has successfully updated your driver software	
	Windows has finished installing the driver software for this device.	
	Con	
		Carlo Car
1.Check if the "Wir 2.Select the conditi Updated Not updated	dows has successfully updated your driver software" is displaye ion confirmed in 1 from among the following options:	d.
1.Check if the "Wir 2.Select the conditi Updated Not updated 3.Click the "Close" The driver softwa 4.Click the "Next no	rdows has successfully updated your driver software" is displaye on confirmed in 1 from among the following options: button on "Update Driver Software." are has been updated. are > "button on "MEC Setue Tool."	d.
1.Check if the "Wir 2.Select the condit © Updated © Not updated 3.Click the "Close" The driver softwa 4.Click the "Next p	ridows has successfully updated your driver software" is displaye ion confirmed in 1 from among the following options: button on "Update Driver Software." are has been updated. age >" button on "MEC Setup Tool."	d.
1.Check if the "Wir 2.Select the condit © Updated ○ Not updated 3.Click the "Close" The driver softwa 4.Click the "Next p	rdows has successfully updated your driver software" is displaye on confirmed in 1 from among the following options: button on "Update Driver Software." are has been updated. age >" button on "MEC Setup Tool."	d.

"Completion of driver update (IAI USB to UART Bridge Controller)" Page



[2] The "MEC PC Software Installation" page appears. Select the "Installation is already complete" check box, and then click the [Close] button. The "MEC Setup Tool" is closed.

E MEC Setup Tool Ver 1.1.4.0			X
 The MEC PC software installation stat Select one of the following options: (Clicking the "Start" button or "Close" C Installation of the MEC PC software Installation is already complete. Click the "Start" button on the "MEC The installer for "MEC PC software" la 	ts. button closes "MEC Setup e starts. Setup Tool." nunches.	Tool.")	
*When you wil use MEC which does no (You can confirm a driver update pro	t update the driver,check cedure with "MEC Setup T	the driver software v ool.")	rersion.
	< Previous page	Start	Close

"MEC PC Software Installation" Page

- (6) Starting a MEC setup
 - [1] The "Start MEC Setup Tool" page appears. Click the [Setup started] button. When the [Setup started] button is clicked, the IAI USBv3 will be copied.
 - * If the copying fails, the "Error" screen appears. If this screen appears, copy the IAI USBv3 folder in the Data folder to the PC. Write down and keep the location where the folder was saved as it may be required during a driver software update.
 - * The page you move to after clicking the [Setup started] button varies depending on the installation status.
 - If the "Warning (IAI USBv1)" page is displayed, proceed to [2].
 - If the "Warning (IAI USBv2)" page is displayed, proceed to [6].
 - If the "IAI Corporation USB to UART Bridge Controller Driver Installer" page is displayed, proceed to [12].
 - If the "Device Driver Software Installation" page is displayed, proceed to [15].

MEC Setup Tool Ver 1.1.4.0	
This tool installs the software below.	
USB driver(IAI Corporation USB to UART Bridge Controller)	
MEC PC software	
Click the "Setup started" button.	
Setup started Manual	Cancel
*A PDF viewer is required to open the Operation Manual.	

"Start MEC Setup Tool" Page

8	The IAI USB driver could not be cop Do you want to install the USB driver If the "OK" button was cikked — Cc If "Cancel" was cikked — Th Cl	ied. r next? py the IAI USB saved in the Data folder to a desired location, pe dialog stating, "The IAI USB could not be copied" closes. lick the "Setup started" button on "MEC Setup I ool."	, and write down that locati
			OK Canc

"Error" Screen



"Warning (IAI USBv1)" Screen



"Warning (IAI USBv2)" Screen

- [2] In case USBv1 is installed, "Warning (IAI USBv1)" screen will show up. Click on [Yes] button in "Warning (IAI USBv1)" screen.
- [3] The "Programs and Features" in the control panel starts and "Process of uninstallation" page opens. In the list of "Programs and Features", find "IAI USB to UART Bridge Controller" and double click on it. If "User Account Control" screen is appeared at this time, click on [Continue] button. Next, click the [Next page >] button on "MEC Setup Tool".



"Process of uninstallation" Page



[4] The "Check of uninstallation" page appears. Click the [Yes] button on the "Notification" screen, and then click the [Next page >] button on "MEC Setup Tool".

B MEC Setup Tool Ver 1.1.4.0	×
Check of uninstallation	
Yes No 1.Click the "Yes" button on "Notification." 2.Click the "Next page >" button on "MEC Setup Tool."	
Uninstal < Previous page Next page > Skip >>	Cancel

"Process of uninstallation" Page

[5] The "Uninstall Successful" page appears. Click the [OK] button on the "Notification" screen, and then click the [Next page >] button on "MEC Setup Tool". Proceed to [12].

T. MEC Setup Tool Ver 1.1.4.0
Initial Successful Initial Successful Initial Successful I.Cick the "OK" button on "Notification." 2.Cick the "Next page >" button on "MEC Setup Tool."
Uninstal < Previous page Next page > Skip >> Cancel

"Uninstall Successful" Page

- [6] In case USBv2 is installed, "Warning (IAI USBv2)" screen will show up. Click on [Yes] button in "Warning (IAI USBv2)" screen.
- [7] The "Program and Features" of the control panel will launch and the "Uninstall Successful" page appears.

In the list of "Programs and Features", select "IAI USB to UART Bridge Controller (Driver Removal)" and double click on it. If "User Account Control" screen is appeared at this time, click on [Continue] button. Next, click the [Next page >] button on "MEC Setup Tool".

E. MEC Setup Tool Ver 1.1.4.0	
Process of uninstallation	
🚱 💮 🕈 📶 « Programs and Fe	
Control Panel Home Vise installed update. @ Tran Windows fastures on or ort	Uninstall or change a program To wineard program, seek it from the list and then cick Uninstall, Change or Repuir. Organize • 📄 • 📦
	ILLUUSE to UART Bridge Controller (Driver Removal)
1.Double click the "IAI USB to UART Bridge 2.1f "User Account Control" is displayed, click (Standard user input the administrator pass 3.Click the "Next page >" button on "MEC S	Controller(Driver Removal)." t the "Continue" button on "User Account Control." sword, and then click the "OK" button.) etup Tool."
Uninstal < Previous page	Next page > Skip >> Cancel

"Uninstall Successful" Page

[8] The "IAI USB to UART Bridge Controller Driver Uninstaller" page appears. Click the [Uninstall] button on the "IAI USB to UART Bridge Controller Driver Uninstaller" screen, and then click the [Next page >] button on "MEC Setup Tool".

MEC Setup Tool Ver 1.1.4	.0		x
IAI USB to UART Brid	e Controller Driver Uninstaller		
1	X IAI USB to UART Bridge Controller Driver Uninstaller	×	
	MI Compression		
	AI USB to UAR1 Bridge Controller		
	Installation Location: Drive	er Version 5.4.29	
	[]	1	
	Uninstal	Cancel	
1 Cick the "Uninstal	button on "IAI USB to UART Bridge Controll	er Driver Uninstaller "	
1.Click the "Uninstall 2.Click the "Next pa	button on "IAI USB to UART Bridge Controlle e >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Click the "Uninstall 2.Click the "Next pa	button on "IAI USB to UART Bridge Control je >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstall 2.Click the "Next pa	button on "IAI USB to UART Bridge Control e >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Click the "Uninstall 2.Click the "Next pa	button on "IAI USB to UART Bridge Control e >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Click the "Uninstall 2.Click the "Next pa	button on "IAI USB to UART Bridge Control je >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstal 2.Cick the "Next pa	button on "IAI USB to UART Bridge Control je >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstal 2.Cick the "Next pa	button on "IAI USB to UART Bridge Control je >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstal 2.Cick the "Next pa	button on "IAI USB to UART Bridge Control e >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Click the "Uninstal 2.Click the "Next pa	button on "IAI USB to UART Bridge Control je >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstal 2.Cick the "Next pa	button on "IAI USB to UART Bridge Control pe >" button on "MEC Setup Tool."	er Driver Uninstaller."	
1.Cick the "Uninstal 2.Cick the "Next pa	button on "IAI USB to UART Bridge Control pe >" button on "MEC Setup Tool."	er Driver Uninstaller."	

"IAI USB to UART Bridge Controller Driver Uninstaller" Page

- [9] The "Checking of display of Error" page appears. Check if this "Error" screen is displayed.
 - If it is displayed, click the [Yes] button on the "Error" screen, and then click the [Next page >] button on "MEC Setup Tool".
 - If it does not appear, click the [Next page >] button on "MEC Setup Tool".

MEC Setup Tool Ver 1.1.4.0	The second s	×
Checking of display of "Erro	r"	
Error		
- 4	Some of the subdirectories created in C:\\Program hiles\UAI\UAI USBv2\Vista-7 could not removed during the uninstallation.	
	Do you want to continue to uninstall the rest of the driver package?	
1	Yee No.	
1.Check if the "Error" scr	een is displayed.	
2.Select the condition cor	nfirmed in 1 from among the following options:	
O Displayed		
3 Cick the "Yes" hutton i	on "Error "	
4.Click the "Next page >"	" button on "MEC Setup Tool."	
Uninstal	< Previous page Next page > Skip >>	Cancel

"Checking of display of Error" Page
- [10] The "Checking of restart" page appears. Check if this "Microsoft Windows" screen is displayed.
 If it does not appear, click the [Next page >] button on "MEC Setup Tool". Proceed to [11].
 - If it is displayed, click the [Restart Now] button on the "Microsoft Windows" screen. After Windows is restarted, start the MEC setup tool. When starting up "MEC Setup Tool" after a reboot, "IAI Corporation USB to UART Bridge Controller Driver Installer" will appear. Proceed to [12].
 - * The location of the "MEC Setup Tool" execution file is displayed in the "MEC Setup Tool". Check it before restarting Windows.

B MEC Setup Tool Ver 1.1.4.0	- 🗆 🗙
Checking of restart	
Microsoft Windows	
You must restart your computer to apply these changes	
Before restarting, save any open files and close all programs.	
Restart Later	
1 Check if the "Missereft Windows" arrest is displayed	
2.Select the condition confirmed in 1 from among the following options:	
C Not displayed C Displayed	
3. Click the "Restart Now" button on "Microsoft Windows."	
Windows is restarted. 4.After Windows has restarted, launch "MEC Setup Tool."	
First, the installation screen for IAI USB opens.	
(The exe file of "MEC Setup Tool" is in the location below.)	
Uninstall < Previous page Next page > Skip >> Car	icel

"Checking of restart" Page



- [11] The "Uninstall Successful" page appears.
 - Click the [OK] button on the "Success" screen, and then click the [Next page >] button on "MEC Setup Tool".

MEC Setup Tool Ver 1.1.4. Uninstal Successful	0	
	Success	
1.Click the "OK" butt 2.Click the "Next pag	on on "Success." e >" button on "MEC Setup Tool."	
Uninstall	< Previous page Next page > Skip >>	Cancel

"Uninstall Successful" Page

[12] The "IAI Corporation USB to UART Bridge Controller Driver Installer" page appears. Click the [Install] button on the "IAI Corporation USB to UART Bridge Controller Driver Installer" screen, and then click the [Next page >] button on "MEC Setup Tool".

TAI Corporation USB to UART Bridge Controller Driver Installer	
201 JAL Corporation UNX to UART Bridge Controller Driver Installer 201 JAL Corporation 202 JAL Corporation UXD to UART Bridge Controller 203 JAL Corporation UXD to UART Bridge Controller 204 January Controller 205 January Controller 205 January Controller	
In Corporation USD to UART Bridge Controller Installation Location: Driver Version 6.5	
Change Install Location Install Cancel	
1.Cick the "Install" button on "IAI Corporation USB to UART Bridge Controller Driver I	nstaller."
2.Click the "Next page >" button on "MEC Setup Tool."	instance -
	Const

"IAI Corporation USB to UART Bridge Controller Driver Installer " Page

- [13] The "Checking of restart" page appears. Check if this "Microsoft Windows" screen is displayed.
 If it does not appear, click the [Next page >] button on "MEC Setup Tool". Proceed to [14].
 - If it is displayed, click the [Restart Now] button on the "Microsoft Windows" screen. After Windows is restarted, start the MEC setup tool.

When starting up "MEC Setup Tool" after a reboot, "Connection check" will appear. Proceed to [15].

* The location of the "MEC Setup Tool" execution file is displayed in the "MEC Setup Tool". Check it before restarting Windows.

hecking of restart				
	Microsoft Windows	of the local division		
	You must restart y changes	your computer to	apply these	
	berore restarting, save a	Restart Now	Restart Later	
1.Check if the "Mi 2.Select the cond C Not displayed Displayed	crosoft Windows" screen i tion confirmed in 1 from a	is displayed. Imong the following (options:	
3.Click the "Resta Windows is resta 4.After Windows I First, the installa (The exe file of	rt Now" button on "Micros arted. has restarted, launch "ME tion screen for device driv "MEC Setup Tool" is in the	oft Windows." C Setup Tool." er software opens. e location below.)		

"Checking of restart" Page



[14] The "Install Successful" page appears. Click the [OK] button on the "Success" screen, and then click the [Next page >] button on "MEC Setup Tool".

	Success
	Installation completed successfully
	•
	ОК
1.Click the "OK" butto	on on "Success."
1.Click the "OK" butto 2.Click the "Next page	on on "Success." e >" button on "MEC Setup Tool."
1.Click the "OK" butto 2.Click the "Next page	on on "Success." e >" button on "MEC Setup Tool."
1.Click the "OK" butto 2.Click the "Next page	on on "Success." e >" button on "MEC Setup Tool."
1.Click the "OK" butto 2.Click the "Next page	on on "Success." e >" button on "MEC Setup Tool."
1.Cick the "OK" butto 2.Cick the "Next pag	on on "Success." e >" button on "MEC Setup Tool."
1.Cick the "OK" butto 2.Cick the "Next pag	on on "Success." e >" button on "MEC Setup Tool."

"Install Successful" Page

[15] The "Device Driver Software Installation" page appears.

Connect MEC to the PC.

If MEC is already connected, take out the USB cable once and put it back in. A message shows up saying "Installing device driver software" when the connection is established. Wait till installation is finished, and then click the [Next page >] button in "MEC Setup Tool".

- * Be careful because the message "Installing device driver software" disappears after a certain while.
- * It may take a few minutes to install the device driver software depending on the condition of the PC.

E. MEC Setup Tool Ver 1.1.4.0	
Device Driver Software Installation	
Listalling device driver software * × Clok here for status.	
LAL USB to UART Bridge Controller (COM3) * * Device driver software installed inscendulty:	
Device driver software was not successfully installed * × Clock how for details.	
 Connect your MEC to the PC. Do not unplug the USB cable until the setup is complete. (If the cable is aircady connected, unplug t and then plug t back in.) (Do not connect plural MEC to a PC.) Check if instalation of device driver software is being started. (When time passes, the message of the upper figure may disappear.) Select the condition confirmed in 2 from among the following options: 	
4.Wat until installation of the device driver software is completed. (It may take several minutes in installation of device driver software.) 5.Click the "Next page >" button on "MEC Setup Tool."	
Uninstal < Previous page Next page > Skip >>	Cancel

"Device Driver Software Installation" Page

- [16] The Device Manager will launch and the "How to start driver update (IAI USB to UART Bridge Controller)" page appears.
 - If "CP2102 USB to UART Bridge Controller" is displayed in "Other Devices", right-click "CP2102 USB to UART Bridge Controller" and click "Update Driver Software." Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [18].
 - If "IAI USB to UART Bridge Controller" is displayed in "Port (COM and LPT)", right-click "IAI USB to UART Bridge Controller" and left-click "Property".

Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [17].

• In any cases other than above, there may be a concern that the connection between MEC and the PC is not properly established.

Select an option on "MEC Setup Tool", and then click the [Next page >] button. Go back to [15].

	S Desire Manager	Statement of the local division in which the local division in the local division in the local division in the	SCHOOL STREET,	
	Fine Action View Help de de la la la la la de du			
	A Draw of entrome of the second	Updete Diver Softwers Deatre Lisionad Sam fur hundvers changes Properties		
	Lounches the Update Driver Software Wigard for the sele	cted device.		
.Check if "CP2102 Select the condition "CP2102 USB to "IAI USB to UA Other than the	USB to UART Bridge Controller' n confirmed in 1 from among to UART Bridge Controller" is dis RT Bridge Controller" is displaye se above	' is displayed under the following options played under "Othe ed under "Ports(CO	"Other devices." :: r devices." M & LPT)."	

"How to start driver update (IAI USB to UART Bridge Controller)" Page



- [17] The "Checking of Driver Versiton" page appears. Click on "Driver" tab in "Property of IAI USB to UART Bridge Controller" screen to check the version.
 - If the version is 6.5.0.0 or later, select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [21].
 - If the version is earlier than 6.5.0.0, click on [Updata Driver...] button in "Property of IAI USB to UART Bridge Controller" screen .

Select an option on "MEC Setup Tool", and then click the [Next page >] button. Proceed to [18].

	IAI USB to UARI Bridge Controller (CUM3) Properties
	General Port Settings Driver Details Power Management
	IAI USB to UART Bridge Controller (COM3)
	Driver Provider: 1AI Corporation
	Driver Date: 9/28/2011
	Driver Version: 6.5.0.0
	Digital Signer: Microsoft Windows Hardware Compatibility Publishes
	Driver Details To vicw details about the driver files.
	Update Driver
	Real Park Cover I the device fails after updating the driver, rol
Click the "Driver" ("IAI USB to UART Check if "6.5.0.0" Select the condition Displayed	ab (Red frames part in a figure) on Bridge Controller Properties." is displayed on the term of the "Driver Version." in confirmed in 2 from arrong the following options:
Cal the "Hedete	Draver" hutten on
L I I I I I I I I I I I I I I I I I I I	Bridge Controller Properties."
"IAI USB to UART	
"IAI USB to UART Click the "Next pa	ge >" button on "MEC Setup Tool."
"IAI USB to UART Click the "Next pa	ge >" button on "MEC Setup Tool."
"IAI USB to UART Click the "Next pa	ge >" button on "MEC Setup Tool."
"IAI USB to UART Click the "Next pa	ge ≻" button on "MEC Setup Tool."

"Checking of Driver Version" Page

[18] The "Select driver update method (IAI USB to UART Bridge Controller)" page appears. On the "Update Driver Software" screen, click the [Browse my computer for driver software] button. Click the [Next page >] button on "MEC Setup Tool".

release annual aparate i	Conductive over one of the oracle of the ora	
	💮 🚊 Updata Driver Software - CP2002 USB to UNIT Bridge Controller	
	How do you want to search for driver suftware?	
	Search automatically for updated driver software Window will search your compare and the brennet for the latert driver software for your device, unless you've dualed this feature in your device installation software.	
	Browse my computer for driver software Locat and initial drive software manually.	
	1.4%	
1 Cick the "Prourse	my computer for driver coffuero" button on "lindete Drive	r Softwara "
1.Click the "Browso 2.Click the "Next p	my computer for driver software" button on "Update Drive age >" button on "MEC Setup Tool."	r Software."
1.Click the "Browso 2.Click the "Next p	my computer for driver software" button on "Update Drive age >" button on "MEC Setup Tool."	r Software."
1.Click the "Browse 2.Click the "Next p	my computer for driver software" button on "Update Drive age >" button on "MEC Setup Tool,"	r Software."
1.Click the "Browso 2.Click the "Next p	my computer for driver software" button on "Update Drive age >" button on "MEC Setup Tool."	r Software."

"Select driver update method (IAI USB to UART Bridge Controller)" Page



- [19] The "Selection of driver software (IAI USB to UART Bridge Controller)" page appears. Enter the file save location that is displayed in the MEC setup tool in the area circled in red on the "Update Driver Software" screen, and then click the [Next] button. Click the [Next page >] button on "MEC Setup Tool".
 - * If incorrect characters are entered, you cannot proceed to the next step.



"Selection of driver software (IAI USB to UART Bridge Controller)" Page

[20] The "Completion of driver update (IAI USB to UART Bridge Controller)" page appears. Click the [Close] button on the "Update Driver Software" screen. Select an option on "MEC Setup Tool", and click the [Next page >] button.

MEC Setup Tool Ver 1.1.4.0	
Completion of driver update(IAI USB to UART Bridge Controller)	
1 Update physic concerner (1010/d to UDATE single Conceller) COM(1)	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
IN USE to UAR? Biology Convertor	
CHM	
 Check if the "Windows has successfully updated your driver software" is displayed. Select the condition confirmed in 1 from among the following options: 	
Updated Ont updated	
3.Click the "Close" button on "Update Driver Software." The driver software has been updated. 4.Click the "Next page >" button on "MEC Setup Tool."	
Uninstal < Previous page Next page > Skp >>	Cancel

"Completion of driver update (IAI USB to UART Bridge Controller)" Page



[21] The "MEC PC Software Installation" page appears. Select an option on "MEC Setup Tool", and then click the [Start] button. The MEC PC software installer will launch, and the "MEC Setup Tool" will be closed.



"MEC PC Software Installation" Page

- [2] How to uninstall the USB driver
 - While the MEC controller is connected, click the [Uninstall] button on "MEC Setup Tool". The Device Manager will launch. If the Device Manager could not be launched, the "Uninstall_How to display My Computer Properties" page appears first.
 Display the My Computer Properties screen by following the onscreen instructions.
 Next, the "Uninstall_How to Display Device Manager" page appears.
 Click the [Device Manager] button.

	-	Text Sales	1
		Betram.	
		Partnerson	
		fau	1 A A A A A A A A A A A A A A A A A A A
		Si terre resultative	
		Friendle	
Rott-clek 'Campo Clek the 'Next pa	ter," and then loft pr >" Indice or "?	ckk "Properties." IEC Singi Tanl."	

"Uninstall_How to display My Computer Properties" Page



"Uninstall_How to Display Device Manager" Page



[2] The Device Manager launches, and the "Uninstall_How to Uninstall USB" page appears. Right-click "CP2102 USB to UART Bridge Controller," and then click "Uninstall" to delete the USB driver assignment. Click the [Next page >] button on "MEC Setup Tool".

onitistal_now to onitistal USB			
The Device Manager		in the second	
File Action View Help			
(**) [] [] [] [] [] [] [] [] [] [] [] [] []	314.15		
South of the second seco	rs vices		
B Mais Storage Controller	Update Univer Software		
All Portable Devices Devices Processors	Uningtall		
SD SD host adapters	Scan for hardware chang	es l	
1 1 System devices	Properties		
Universal Serial Dus controll	Pris Contraction Contraction		
Uninstalls the driver for the selected dev	in Controller" is displayed ur	der "Other devi	
Unator the deur for the ordered of 1. Check if "CP2102 USB to UART Bridge C 2. Select the condition confirmed in 1 from "CP2102 USB to UART Bridge Control C"CP2102 USB to UART Bridge Control C"CDther devices" is not displayed. 3. Right-cick "CP2102 USB to UART Bridge left-cick "CP2102 USB to UART Bridge left-cick "CP2102 USB to UART Bridge left-cick "Next page >" button on "MEC	Controller" is displayed ur among the following opt ler <u>" is displayed.</u> ler" is not displayed. Controller," and then B to UART Bridge Contr Setup Tool."	nder "Other devie tions: oller."	ccs."

"Uninstall_How to Uninstall USB" Page

[3] The "Device Driver Software Installation" page appears, and you will return to the installation.

1.3 Launching the MEC PC Software

[1] Turn off the controller power and PC power and connect the following devices as shown below.



- [2] When all devices have been connected, turn on the controller power and PC power.
- [3] Click the MEC PC software icon to start the MEC PC software. The "Initial Screen" appears which then automatically switches to the "Introduction" screen. Click [Enter].



- [4] Check if the Auto lamp on the MEC controller is illuminating in green. If you see a steady green light, you are now ready to connect the MEC PC software and MEC controller.
- [5] Click [Connect to MEC Controller]. Connection of the PC and MEC controller is started and the message "The PC is connecting to MEC controller..." appears.

Clicking [Cancel] cancels the connection. Even if the connection is cancelled, the screen will not change.



PC and MEC Controller Connection Screen



PC and MEC Controller Connection Screen

For version V2.00.00 and later, the display shows "Retrieving connection information" while obtaining the connected axis numbers from the controller and [Connect to MEC Controller] button turns invalid. After the axis numbers are obtained, [Connect to MEC Controller] button turns back valid.



[6] When the connection is complete, the menu screen appears.

e	Mails Merzu Citic each Calce and Annual international to alway was used to de, and proceeding to the applicable screens (marcal citic activation of social processing over the "Security")
	First, try simple operations: Point a space to be the sector
	First, try simple operations!
	Create a program over to cash a very angents
	Comma comparignme Comma comparignme comparison of the second seco
	Check program operations, prosts president of a const. Apreses and result
	Check program operations
	IAI
	Menu Screen

ienu Screen

2. Overview of MEC PC Software Screen

The operating screen of the MEC PC software is shown below. You can display this screen by clicking [Overview of MEC PC Software Screen] from the main menu.



3. What You Can Do with the MEC PC Software (Operations from the Main Menu)

Select the items appropriate for the purpose in the main menu.

🥑 Main Menu	Click each shown below that corresponds to what you want to do, and proceed to the applicable screen. (You can click each undefined word in thue to open the "Glossary" screen where you can check the meaning of the word.)
• Fir	st. try simple operations! (Want to experience the basic operations of this software)
0	First try simple operations!
	rinst, dy simple operations.
• Cre	sate a program (Want to create a new program)
	Create a new program using the "V-T graph"
● <u>Ch</u>	eck program operations (Want to check the operation of, or correct, a program already created)
C	Check program operations
0	check program operations

For ERC3, [MEC Controller Operation Panel Function Details] button is not shown since there is no explanation for the "operation panel function details".

Check pro	gram operations
ble of Contents Overview of MEC	141



The operation flow of each menu is explained.

3.1 First, Try Moving an Actuator





- 3.2 Creating a Program
- 3.2.1 Using the "table"



- This screen is not displayed if "Stop at 2 points" is selected as the specification for stopping positions.
- *1 This screen is not displayed if "Stop at 2 points" is selected as th
 *2 This screen is not displayed if "NO" is selected for push motion.

3.2.2 Using the "V-T Graph"



- *1 This screen is not displayed if "Stop at 2 points" is selected as the specification for stopping positions.
- *2 This screen is not displayed if "NO" is selected for push motion.



3.2.3 Using "sample program"





3.3 Checking Program Operations



- *1 This screen is not displayed if "Stop at 2 points" is selected as the specification for stopping positions.
- *2 This screen is not displayed if "NO" is selected for push motion.

4. Creating a Program

Programs to move actuators can be created by one of the following two methods:Create an operation condition table to move the actuator

- Create an operation condition table to move the actuator
 [Refer to 4.1, "Creating an Operation Condition Table to Move the Actuator."]
 Create a speed vs. time graph to move the actuator
- [Refer to 4.3, "Creating a Speed vs. Time Graph to Move the Actuator."] • Move the actuator using a sample program

[Refer to 4.4, "Moving the Actuator Using a Sample Program."]

4.1 Creating an Operation Condition Table to Move the Actuator

In this method, you set the operation conditions of the actuator in the operation condition table to move the actuator.

Click [Create a new program using the "table"] from the main menu. Set the necessary conditions according to the onscreen instructions.

🧬 Main Menu	Chie and the second state that corresponds to what per works do not present to the performance of the second state and the second stat
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	office Ary hills
Cha	A program operations device a language of program device research
E	Check program operations

[1] Select the number of stopping positions by clicking [Stop at 2 points] of [Stop at 3 points]. Once you have made the selection, click [Next].

E GER DE La sease		3-18
· Contraction	Managing at 21% and at 15% and 47	
Table	Select work with "Billion County" for "Book Frances" " After the selection is made, while Year" in the right	Harranena,
Part and a second secon		Page operation Sections
	Bogs or 2 points	5
Averation cloud Land Second Technologiese	, j	

[2] If you have selected "Stop at 3 points," select whether to turn both of solenoids A and B (ST0 and ST1 signals) OFF or turn both solenoids ON for the positioning to the intermediate point. Once you have made the selection, click [Next].



[3] Select whether to "YES" or "NO" for push motion. Once you have made the selection, click [Next].



[4] If you have selected "YES" to perform push-motion operation, select "Approach" or "Return" as the push direction.

If the actuator is stopping at 3 points, you can also select "Intermediate." Once you have made the selection, click [Next].

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Table Table Structure Instatut SPuerts	Pred Desition? Sdoct "annuals", " when " or " exceeding, " or the cush desites. Phylick desites an its specified.) when the selection is node, data "read" on the right.	Alarro, Tesat
Institute specific file second second Staffs ON Peak reaction YES Paral skeep like the provide a program Ordele a program Upgerature of the Light second second Upgerature of the k Light second second second Second second second second second Light second	Approach Return	Page operations buttoms Back Main Menu Pierr

[5] Select the stopping position input method from among "MDI (Numerical input)," "JOG (Motor drive)" and "Direct teaching (Manual)."

[Stopping position input by MDI (Numerical input)] Select "MDI (Numerical input)."

Once you have made the selection, click [Next].

Top an Deadlant	How to look the Stop Post	theory .		
Table	Stop praitions can be input in 1 Soluti 7404 (numerical entry) After the selection is made, clici	trais methodis "Jay (motor carrier" or "Dire s "Next" on the right	al lead sty (marcal)."	Alaran Fre Magyiana
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Set values in the stopping position fields of the operation condition table.

[Refer to 4.2, "Setting the Operation Conditions."]

When setting a value of the stopping position corresponding to the end point, click the field of the operation condition table you want to set, as shown below. Enter a value from the keyboard and then press the ENTER key. The value will be input.

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Table Table	Enter the values of each and coals have in the ' option' When the table is	top polition, good , goolands provide an Data State Sort complete, disk State on the co	n , developation also set the <u>gran</u> gre	put bird analda	Karet River Maintenari
Participanti de Participanti de NO Participanti de NO Participanti de Participanti de	Mart part (Astern) Bird pairs (Approach		- 	5	Page operating subtarray
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fave the program	Enilgott Okproado	30 200.00	0.30	0.30	
Firish		<u> </u>			



[Stopping position input by jogging] Select "JOG (Motor drive)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

AND TO SOTTOM	and the second se	1.6171
Table Table Provide Lawrent 2 Pokets	Description Optimize results [1] House results Optimize results [2] House results Optimize results [2] House results Text for any positive that involve results is contains. For large [2] House results Text for any positive that involve results is contains. For large [2] House results Text for any positive that involve results is contains. To be involved only positive that involve results in the state of positive dots. Text for any positive that involve results is contained. [2] House results Optimize results in the state of positive dots. Text for any positive d	Amer, Rood Haltaconst
Rush resident	[1]Basering of Home port yet complete] [2]Basering of these drives [2]Basering of these drives [2]Basering of these drives [4] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Berk Mari Merk Best
Transfer (Inc.)	11) Drivy in operation conditions table 200009 200009 20000 2	

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home [Complete]	
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Select the stopping position you must teach the actuator.

	CLOSE O PLOG ALL					
Manuerra	[1]Harne return	SCHOOL SERVICE AND IN COLUMN	reach complete. Per	rten derentige at	ion.	And Street Street
Table Table 2 Points	[2] Stop perifice selecti [3] Teaching (Dep: Motor drive) [4] Forey in operation (5) Program consistion	 Barbolt Revolution pro- tome "low" and "low to the ongo points "Type"." Order the second order of the barbol of the second second order of the barbol. 	etter Pul mod to 16. Row Period to 21. Governt To Top	lagit na Aread adoox 5. she hi sheb adoo sheba	enet und Koren epochiret, dat partitica	Page operati
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When stopping at 3 points

When stopping at 2 points

Start point (Return)					
Start point (Return)					
Intermediate point (Intermediate)					
End point(Approach)					

Start point (Return)
Start point (Return)
End point(Approach)

Click $[\leftarrow]/[\rightarrow]$ to move the actuator to the stopping position. Click [Input]. The current position is saved as the stopping position you have selected.

AND DESCRIPTION OF THE PARTY OF		
Valinemus Table Menergi d' Annergi d' 2 Polams	Uncerte a Programm Scientification and sciences for the next specification. [1] Harve rentime Scientification and the relative barrier for rent specification. [2] Bitrop pertitive softestion. Scientification and the relative barrier bar	Page operation
Post motion NO Post description Post description Real state	[11] Aussing of Home Home pcomplete) [22] Stag position setwrites (sat part doung Impleted [23] XXG [Maar drive] Impleted Impleted	Bettom Beck Mart Mente Next
JOG Chate a program Typerature that Land Solve the program	11 D Devotion conditions table All white cells in the table must be 200000 Senato 200000 Senato 20000 Senato 2	



[Stopping position input by direct teaching (manual)] Select "Direct teaching (Manual)." Once you have made the selection, click [Next].

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 Section 2
2 Pokts				Page ope botto
Posts method 1 NO Posts direction?	NDi Parmencal inputi	JOG (Motor drive)	Direct leaching pharman	Mari V
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Click [Home] to perform home return.

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Save the program	Anter and Anterna C Inter Innia Gol	And a second sec
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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return Home Complete	e]	• [0N]
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Click [Motor Power OFF] to turn off the motor power. The motor power (servo) turns off.

And a local division of the local division o	Create o Program	
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the state of the s		

Caution:

If you are releasing the brake of a vertically installed actuator, be careful not to let your hand pinched or the work part damaged by the actuator falling due to its own weight.

Select the stopping position you must teach the actuator.

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Table Table Particular	Churde or Peoples Instruction of elevation back that the off the next space Instruction of elevation back to the off the next space C) Takes before return Instruction of elevation back to the off the next space Instruction of elevation back to the off the next space Instruction of elevation back to the off the next space C) Takes because solutions Instruction of elevation of the next space Instruction of elevation of the next space Instruction of elevation of
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Cyclober dash	Particular
Fresh	

When stopping at 3 points

Start point (Return)	*
Start point (Return)	
Intermediate point (Intermediate)	
End point(Approach)	

When stopping at 2 points

Start point (Return)	*
Start point (Return)	
End point(Approach)	



Manually move the actuator to the stopping position.



The position is shown in the current position field. Click [Input]. The current position is saved as the stopping position you have selected.





[6] Set the values of speed, acceleration, deceleration, push band, push force and energy saving setting, as necessary, in the applicable fields of the operation condition table. [Refer to 4.2, "Setting the Operation Conditions."]

For example, assume you want to set the value of the stopping position corresponding to the start point. In this case, click the field of the operation condition table you want to set, as shown below. Enter a value from the keyboard and then press the ENTER key. The value will be input.

The second se	Greate a Program				
Table Table	Green the values of each stop po- and study brain in the "green the option". When the balle is complete	RW, gend , womato n. waters table," and ex, did Text" on Terry	n , decembration , dec set the <u>many</u> H.	outbed casts	Barn Pese
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Operation charge			Accomuter Gi2	Densis dan UKU	
. Bell	· Bates	200.00	0.30	0.30	
Last the program	Colorett (Account)	200.00	0.30	0.30	
Final	4				

When all necessary values have been input, be sure to click [Next].

When [Next] is clicked, the confirmation message appears with the message "Do you want to start transferring the data?"

Click [Yes]. Clicking [Yes] transfers the values in the operation condition table to the controller.

(Note) The values in the operation condition table will not be transferred to the controller if [No] is clicked.

	Constant Programm					
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	* Bartaany Bartaany Bartaany Toloon Itoloon	Conditions table Description Intel 30.00	All share call constant 00.005 00.005	6.30 0.30	ar je Med. Genete Morr Ukj 0.30 0.30	

The following message appears while the data is being transferred.

When the transfer is complete, the display changes to the next screen for operation check.

Manual State	Create a Program					
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. Lat	+ Containt	0.00	200.00	0:30	0.30	
save the program	Ordunett Dese samt	30.00	200.00	928	0.30	
Finish:					-	

[7] Now you are ready to operate the actuator, so let's perform operation check. If home return is not completed yet, click [Home] to perform home return. If operation check is not performed, click [Next] to proceed to saving the program.

No. of Concession, Name	Operation Check					
Table	 [1] Home return [2] Operation shock (3) Continuation 	Call "Jame" Control Tod arrest too Under Sing arrest too Under Sing arrest too Totor: Is into the open offer conferences, its	nerekun ersongelet wint " approach in men nige in Terrer Mon 1 Mint" on Rongele	n, fre Lang teronen 17 Julie sekter 18 der Land 18 der Land- sehlfer 1	n der Minister	Alexan Read
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Operation check		and a	Start Al	Aude III D	Desidence:	Disable
the state	· Stations	0.00	200.00	0.30	0.36	
Save bic program	tendantil Uppersont	30.00	200.00	0.30	0.30	
The second secon						

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home	© [Complete]
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[8] Perform operation check.

Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



- Enable: Click [Enable] if you want to operate the actuator at the safety speed¹.
- Disable: Click [Disable] if you want to operate the actuator at a speed above the safety speed^{*1}.
- *1 Safety speed: The maximum speed is set to 100 mm/s or below.

[Step operation]

Return (start point): Intermediate point:

Approach (end point): Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point. Click [Intermediate] to move the actuator toward the intermediate point in a program where the actuator stops at 3 points.





[Continuous operation]

- Start: Click [Start] to move the actuator forward and backward continuously (between the end point and start point) in a program where the actuator stops at 2 points. Similarly, click [Start] to move the actuator forward and backward continuously (between the end point and start point via the intermediate point) in a program where the actuator stops at 3 points.
 Start: Click [Start] to move the actuator forward and backward continuously (between the end point and start point via the intermediate point) in a program where the actuator stops at 3 points.
- Stop: Click [Stop] to stop the continuous operation.

Contraction Contraction of	Operation Check					
Table	(3) Home return (2) Operation clock (3) Continuation	Cast Taxas" Control Fail areas too Under Sam Derations Was achieve and part fielder Control of Cast Taxas" in stop the upon After control of the upon After control of the upon	nerekult is soweith wint " approach is near an Tar a soon cost "ame" Won 1 "Mar" on Ro. 1994	n, Fan Lange Innovati 17 Julie Hendelle, 15a Nobel ditte Ann 15 Chart Each-sech far	ili 1 ⁴ Malei ¹ avi 1 qarwo, es	Alexan Press
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Lut	· Startport Bearri	0.00	200.00	0.30	0.30	
Save the program	Contraction (30.00	200.00	0.30	0,30	

- [9] Saving the program
- [Saving to the PC]

To save the program (operation condition table) you have created to the PC, click "Save to the PC."

I BECCOLOTION		141 M
Table Table Settle of Joseph / 2 Points Heat soft for	Sove the Program Cbi. Sove to PC' to save the overbal/torneted <u>grouppin</u> to the PC. Selection of bottom is unrecessary if the program need not be avent. The program was phoney used to the PEC when the "Program Creation" screen disriged to the "Operation Check" screen.)	Narre Tevel Narrenauce
Profil software NO Frain size stand Frain size stand MDI Construe program		Back Main Menu Heit
Generation clauds Land H Sour The program Periods		

The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

Save As							2 🛛
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Hy Recent Decuration	a Axeio03)	otpc					
Ny Documents							
Wy Corputer	File gane:	Axisis03	>				Main Menu
Places	Save as type (PMEC files (*	bkpm)			۲	

Once the program has been saved, click [Main Menu]. The screen returns to the main menu.

4.2 Setting the Operation Conditions

Stopping position

Each controller has an operation condition table like the one shown below in is memory. Positioning is performed according to the data in this operation condition table. Values are set using the operation panel on the front face of the controller, or the MEC PC software or other teaching tool.



Positioning Information							
[1]	[2]	[3]	[4]	[5]	[6]	[7]	
Position [mm]	Speed [mm/s]	Acceleration [G]	Deceleration [G]	Push force [%]	Push band [mm]	Energy saving	
10.00	50.00	0.1	0.1	0	0	Enable	
50.00	50.00	0.1	0.1	70	1.00	Enable	

Start point
(approach)10.0050.000.10.100EnableIntermediate point
(intermediate)50.0050.000.10.1701.00EnableEnd point (return)100.0050.000.10.100Enable

[1] Position [mm]: This is the position at which the actuator will stop at the completion of positioning. Set a position from the home. The following positions have the relationship shown below:

Start point < Intermediate point < End point

[2] Speed [mm/s]: Set the speed (mm/s) at which the actuator will move. The maximum speed varies from one actuator to another. Refer to the catalog or operation manual of your actuator.

[3] Acceleration [G]: Set the acceleration at start.

[4] Deceleration [G] Set the deceleration (G) at stop.

(Reference) Acceleration is explained. The same concept applies to deceleration, as well. 1 G = 9800 mm/s²: Acceleration where the actuator can accelerate to 9800 mm/s in 1 second. 0.3 G: Acceleration where the actuator can accelerate to 9800 mm/s x 0.3 = 2940 mm/s in 1 second
Speed

 9800mm/s
 1G
 1S
 1G
 1S
 1S
 1G
 1S
 <td

Caution:

Setting the acceleration/deceleration

- (1) Make sure the acceleration/deceleration you have set does not exceed the rated acceleration/deceleration specified in the catalog or operation manual. If the set acceleration/deceleration exceeds the rated acceleration/deceleration, the life of the actuator may become significantly shorter.
- (2) If the actuator or work part receives shock or generates vibration, lower the acceleration/deceleration. If the actuator is used continuously in such condition subject to shock/vibration, the life of the actuator will become significantly shorter.
- (3) If the transferring mass is significantly smaller than the rated loading capacity of the actuator, an acceleration/deceleration greater than the rating may be set. Increasing the acceleration/deceleration is a way to reduce the tact time, so contact IAI for details. When you do so, let us know the weight, shape and installation method of the work part as well as the installation condition (horizontal or vertical) of the actuator.
 - [5] Push force [%]: Set the push torque (current-limiting value) of the push-motion operation in %. If the current-limiting value (%) is increased, the push force increases. When it is set to 0, it becomes the positioning operation.
 For the relationship between push force and current limiting value (%), refer to the catalog or MEC controller operation manual.

[6] Push band [mm]: Set the distance the actuator will travel during push-motion operation.

When push-motion operation is performed, the actuator moves at the speed and rated torque set as part of the positioning information, just like in normal positioning operation, until the remaining travel enters the range set here. Once the remaining travels is in this range, the actuator moves by pushing the work part until the position set in [1].

The speed at which the actuator moves during push-motion operation is set as the push speed in parameter No. 7. (For the speeds of the push-motion operation, refer to the specifications of the connectable actuators provided in the appendix of the MEC controller operation manual.) Do not specify any setting that exceeds this speed. If the setting in [2] is at or below the push speed, the push-motion operation is performed at the set speed. Actuator operations are illustrated in the figure below when a push-motion operation is performed toward the end point, start point and intermediate point.


[Pushing to the end point or intermediate point]



[Pushing (= pulling) to the start point or intermediate point]



[7] Energy saving function: When the energy saving function is enabled, the motor power (servo) will turn off automatically after a specified time to save the power consumed after completion of positioning.

Set this time beforehand using a parameter.

Parameter No.	Parameter name	Default	Setting range
10	Auto servo OFF delay time [SEC]	1	0 to 9999

[Auto motor power (servo) OFF^{*1}]

When a specified time elapses after positioning has completed, the motor power (servo) turns off automatically. Once the next positioning command is issued, the motor (servo) will turn on automatically and the actuator will perform positioning operation. This way, power consumption can be reduced because no holding current is supplied while the actuator is at standstill.



[Position detection output signal status when the push function is not used]

Even if the motor power (servo) turns off, the start point position detection signal (LS0), end point position detection signal (LS1) or intermediate point position detection signal (LS2) will turn ON according to the applicable position, just like when the sensors are used, as long as the actuator position is within the positioning band (parameter No. 1). Accordingly, the position detection signal, once it has turned ON, will remain ON if the actuator does not move after the completion of positioning.

[Positioning complete signal status when the push motion is used]

In push-motion operation, the motor power (servo) does not turn off automatically while the actuator is pushing the work part. If the actuator has missed the work part, the motor power (servo) turns off automatically. Once the motor power (servo) turns off, the positioning complete status is lost. Accordingly, all of the push complete signal 0 (PE0), push complete signal 1 (PE1) and push complete signal 2 (PE2) will turn OFF.

Caution:

There is no holding torque while the servo is off due to the auto servo OFF function. Because the actuator will move if an external force is applied in this condition, pay due attention to contact and safety when setting this function.

*1 In the operation check performed in the MEC PC software, the auto motor power (servo) OFF function is not implemented. This function is enabled only during PIO operation.



4.3 Creating a Speed vs. Time Graph to Move the Actuator

In this method, you create a speed vs. time graph to move the actuator.

Click [Cerate a new program using the "V-T graph"] from the main menu. Set the necessary items according to the onscreen instructions.

What You Can Do with the MEC PC Software (Main Menu)	Harts Roset
Main Menu Class sum Casheven below that convergends to what pour want to do, and proceed to the applicable screen.	
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First try simple operations!	
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Create a new program using the "WF graph"	
Check pro-	Come
	2.17
Check program operations	
Internet and inter	

[1] Select the number of stopping positions by clicking [Stop at 2 points] of [Stop at 3 points]. Once you have made the selection, click [Next].

	and the second se	
Graph	Solution of a state of states of states of states and states of states of states of states of the solution is made, doi: "New" on the right	Alarm Resal
Park methods Park	Stop at 3 points	Prige operation butterss Marri Menor Next

[2] If you have selected "Stop at 3 points," select whether to turn both of solenoids A and B (ST0 and ST1 signals) OFF or turn both solenoids ON for the positioning to the intermediate point. Once you have made the selection, click [Next].



[3] Select whether to "YES" or "NO" for push motion. Once you have made the selection, click [Next].



[4] If you have selected "YES" to perform push-motion operation, select "Approach" or "Return" as the push direction.

If the actuator is stopping at 3 points, you can also select "Intermediate." Once you have made the selection, click [Next].



[5] Select the stopping position input method from among "MDI (Numerical input)," "JOG (Motor drive)" and "Direct teaching (Manual)."

[Stopping position input by MDI (Numerical input)] Select "MDI (Numerical input)." Once you have made the selection, click [Next].

AND PO Software				- E174
Property Consideration of the local division	They be hand the Hop Post	lion?		
Voltreens Graph	Stop positions can be input in the Select 1423 (humanitud anthr) (* What the selection is made, cite	hee methods "Jogurnator dheey" or "Des 2 Teat" on the right	ct leating (nanual)."	Hern Read
Hart restored	NOI (Namerical Input)	JOG (Motor drive)	Deact teaching (Rhenzel)	Page operation bettons Marchens Next
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Set values for the stopping positions applicable to the "speed vs. time graph."





[Stopping position input by jogging] Select "JOG (Motor drive)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

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Finish		

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].



Select the stopping position you must teach the actuator.

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When stopping at 3 points

Start point (Return)	*
Start point (Return)	
Intermediate point (Intermediate)	
End point(Approach)	

When stopping at 2 points

Start point (Return)	*
Start point (Return)	
End point(Approach)	

Click $[\leftarrow]/[\rightarrow]$ to move the actuator to the stopping position. Click [Input]. The current position is saved as the stopping position you have selected.

AND THE REPORT OF		
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NO Frails Shotback	[3] Stoppetition selection [3] StopPeter drive] Conventionalizer	Heat
Constantions Constantions Lat Lat	Hellow percention conditions lable When the table is complete, click Befure Approach Second and the table is complete, click 200.00 Percent Second and the table is complete, click	
Finish	0.30	

[Stopping position input by direct teaching (manual)] Select "Direct teaching (Manual)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

and the sufficient		(E) [
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Fisish		

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return Home	Complete]	•	Motor Power OFF	© [0N]
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Click [Motor Power OFF] to turn off the motor power. The motor power (servo) turns off.

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Save his propose	Sector and	
Finisti	Acceleration (1)	

Caution:

If you are releasing the brake of a vertically installed actuator, be careful not to let your hand pinched or the work part damaged by the actuator falling due to its own weight.

Select the stopping position you must teach the actuator.

and the second		
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Save the program.	Autoritation of the second sec	

When stopping at 3 points

Start point (Return)	*
Start point (Return)	
Intermediate point (Intermediate)	
End point(Approach)	

When stopping at 2 points

Start point (Return)	*
Start point (Return)	
End point(Approach)	



Manually move the actuator to the stopping position.



The position is shown in the current position field. Click [Input]. The current position is saved as the stopping position you have selected.



[6] Select either the approach or return. If the actuator is stopping at 3 points, you can also select an intermediate point. Set values for the speed, acceleration, deceleration, push band and push force applicable to the speed vs. time graph. Select whether to enable or disable energy saving. Use the displayed tact time as a reference. (The screen is based on MDI (Numerical input).)

Create a Program [1] Stop position entry children many becaming and party Manerically enter the stop positions on acc Graph Makimacono a [2] Entry in speed vs. time groph Erter the good , apple store , dealer entry samp option for general and dan public ablant and age operation buttons [1] Sop position only 100 0.00 NO 1 MDI (it) Samuel as Three thereit pd black fields in the graph reast he Bird.) ee. Return Approach rather sheet: End point -Scient point 0.24 -200.00 e bic proport 0.30 0.30 E Fanisti:

When all necessary values have been input, be sure to click [Next].

When [Next] is clicked, the confirmation message appears with the message "Do you want to start transferring the data?"

Click [Yes]. Clicking [Yes] transfers the values in the operation condition table to the controller.

(Note) The values in the operation condition table will not be transferred to the controller if [No] is clicked.

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Contraction Contraction of	Create a Program	
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Contraction from	(2) Based vs. Three Death pit black fields is the graph react in Bool.) Return Approach 200.00 0.30 0.30 Return Bool (1) Return Bool (1)	

The following message appears while the data is being transferred.

When the transfer is complete, the display changes to the next screen for operation check.

Property Completion	Create a Program	
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[7] Now you are ready to operate the actuator, so let's perform operation check. If home return is not completed yet, click [Home] to perform home return. If operation check is not performed, click [Next] to proceed to saving the program.

Operation Check CAN "State" [1] Phree return Can be flat was to exclude a property for target income it. [2] Operation shade Velocity States income the submet in the state income it. [2] Operation shade Velocity States income the submet income it. [3] Continuous shade of the state income in a flat income in a flat income in a flat income in a flat income income in the state. Velocity States income income in a flat income income income in a flat income income income in a flat inco	Ann Read Nationsi
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	Solida yeard
Operation conditions table Dotum Approach Second Second	Disable
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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home	© [Complete]
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[8] Perform operation.

Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



Enable: Click [Enable] if you want to operate the actuator at the safety speed^{*1}.

Disable: Click [Disable] if you want to operate the actuator at a speed above the safety speed ¹¹.

*1 Safety speed: The maximum speed is set to 100 mm/s.

[Step operation]

Approach (end point): Return (start point): Intermediate point: Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point. Click [Intermediate] to move the actuator toward the intermediate point in a program where the actuator stops at 3 points.





[Continuous operation]

- Start: Click [Start] to move the actuator between approach and return continuously (between the end point and start point) in a program where the actuator stops at 2 points. Similarly, click [Start] to move the actuator between approach and return continuously (between the end point and start point via the intermediate point).
- Stop: Click [Stop] to stop the continuous operation.

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[9] Saving the program

[Saving to the PC]

To save the program (operation condition table) you have created to the PC, click "Save to the PC."

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The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

Save As						2 🛛
Save ini	C RuPc		8-1	QX1	- 🗊 -	Tolaja +
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Once the program has been saved, click [Return to the "Main Menu."]. The screen returns to the main menu.



4.4 Moving the Actuator Using a Sample Program

In this method, you move the actuator using a sample program.

Click [Create a new program using a "sample program"] from the main menu. Set the necessary conditions according to the onscreen instructions.

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What You Can Do with the MEC PC Software (Main Menu)
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First, try simple operations!
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Charlenson energians
Check program operations

You can choose one of the following methods to create a program using a sample program:

- Create an operation condition table
- · Create a speed vs. time graph

[Creating an operation condition table]

[1] Click [Create a program using the "table"]. Click [Next].

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- [2] Select and click one of six sample programs.
 - The screen shows an example where "Stop at 2 points with push motion (on approach)" is selected. Click [Next].

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		and the second se

[3] Select the stopping position input method from among "MDI (Numerical input)," "JOG (Motor drive)" and "Direct teaching (Manual)."

[Stopping position input by MDI (Numerical input)] Select "MDI (Numerical input)."

Once you have made the selection, click [Next].

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And a second sec	MOI Normanical Input	JOG (Motor drive)	Direct leaching (Nereal)	Page specific buttors Hack Mare Menu Heat
Enter Finler	The operator numerically enters the position to be specified using the PC, teaching pendent, als	The operator works on the PC or holds the teaching another, etc. to move the moving part of the another incl, steller, etc. I is the assorbed position by operating the buttoms	The specific turns off the motor power and than directly moves the monorpart (soc) sider, etc. In the specified position. If the last prever lead of the actuator is short free situator is short free situator is short possible in this case, see "poping. (This applies I the situator is a short p	



Set values in the stopping position fields of the operation condition table.

[Refer to 4.2, "Setting the Operation Conditions."]

When setting a value of the stopping position corresponding to the end point, click the field of the operation condition table you want to set, as shown below. Enter a value from the keyboard and then press the ENTER key. The value will be input.



[Stopping position input by jogging] Select "JOG (Motor drive)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home [Complete]	
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Select the stopping position you must teach the actuator.

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When stopping at 3 points

When stopping at 2 points

Start point (Return) 🛛 🗸 🗸	Start point (Return) 🛛 🗸 🗸
Start point (Return) Intermediate point (Intermediate) End point(Approach)	Start point (Return) End point(Approach)

Click $[\leftarrow]/[\rightarrow]$ to move the actuator to the stopping position.

Click [Input]. The current position is saved as the stopping position you have selected.

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Marinem	[5]Hane return	-	waty contrasts an	iters to reit gear	06.	Allore menet
Antal program	 [7] Stop position velocity [9] Touching (Jog Motor drive) [4] Entry in operation 	Select the step po Use "his" and "her to the step position Tap.A" Brow the great of	olise that wurths for rever the action response to the test	taught nin Annuant and bass 5. When the actuals annuals , purchard	and out transport	Vartmann
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[Stopping position input by direct teaching (manual)] Select "Direct teaching (Manual)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

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Valle - Verges Valle - Verges Securit de operations destra - Securit Mande - Securit Bande - Securit Table	[1] Hanseretam [1] Hanseretam [2] Stop position whe [2] Teaching (Direct teaching) [4] Insty is operation conditions table [5] Program complete	Chic Thurs, "Co courses in Hore the course have the course attests is possible with the second of course and attests to second of course and attests to balance	Non-Bai when to some flat mark to set of the shade on to the shade on the two poor and the shade on the shade and the shade of the shad	mer niturn is complet in South 5 in published the south from south and to South mention the right.	anti-larg anti-attraction C. More the E. 1. Ball Joca	Page operation
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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of	Motor Power
Home Return Home [Complete]	OFF [ON]

Click [Motor Power OFF] to turn off the motor power. The motor power (servo) turns off.

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Caution:

If you are releasing the brake of a vertically installed actuator, be careful not to let your hand pinched or the work part damaged by the actuator falling due to its own weight.

Select the stopping position you must teach the actuator.

	Create a Program					
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When stopping at 3 points

Start point (Return)	*
Start point (Return)	
Intermediate point (Intermediate) End point(Approach)	

When stopping at 2 points

Start point (Return)	*
Start point (Return)	
End point(Approach)	



Manually move the actuator to the stopping position.



The position is shown in the current position field. Click [Input]. The current position is saved as the stopping position you have selected.





[4] Set the values of speed, acceleration, deceleration, push band, push force and energy saving setting, as necessary, in the applicable fields of the operation condition table. [Refer to 4.2, "Setting the Operation Conditions."]

For example, assume you want to set the value of the stopping position corresponding to the start point. In this case, click the field of the operation condition table you want to set, as shown below. Enter a value from the keyboard and then press the ENTER key. The value will be input.

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When all necessary values have been input, be sure to click [Next].

When [Next] is clicked, the confirmation message appears with the message "Do you want to start transferring the data?"

Click [Yes]. Clicking [Yes] transfers the values in the operation condition table to the controller.

(Note) The values in the operation condition table will not be transferred to the controller if [No] is clicked.

	Oniato a Program					
Augenheimen Langer geographie Helter litter oppendieter richtigt anseren	Enter the values of cash and <u>stabilizers</u> in the option. When the lable	s stop position, gan "generation condition to complete, click "t	d acception with a set of the rig	des set the grant MC	, public algebra	Anno freed
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The following message appears while the data is being transferred.

When the transfer is complete, the display changes to the next screen for operation check.

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[5] Now you are ready to operate the actuator, so let's perform operation check. If home return is not completed yet, click [Home] to perform home return. If operation check is not performed, click [Next] to proceed to saving the program.

AND PO Software						1.611
Andre Citrate Security as represent Destinations Trable	Distribution Check [1] Home return [2] Operation disek (3) Continuation	Call Taxas" Califies Tax was too Unite Spaces and the actuality of spec- lader contracts of Totar to stop to upo after contraction, its	neroluti e compli nerol agendo la nerolagi e Tre c degi col fatter Mon i Nerol co facigli	In, for Long Income (** Eliza Income School Browning ***: Chart Eliza - Solo for 4	² Marine Santa Lageration, and	Awar, Rood Mailteannist
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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home) [Complete]	
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[6] Perform operation.

Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



Enable: Click [Enable] if you want to operate the actuator at the safety speed ^{*1}.

Disable: Click [Disable] if you want to operate the actuator at a speed above the safety speed¹¹.

*1 Safety speed: The maximum speed is set to 100 mm/s.

[Step operation] Approach (end point): Return (start point): Intermediate point:

Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point. Click [Intermediate] to move the actuator toward the intermediate point in a program where the actuator stops at 3 points.





[Continuous operation]

Start: Click [Start] to move the actuator between approach and return continuously (between the end point and start point) in a program where the actuator stops at 2 points. Similarly, click [Start] to move the actuator between approach and return continuously (between the end point and start point via the intermediate point) in a program where the actuator stops at 3 points.
 Stop: Click [Stop] to stop the continuous operation.

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[7] Saving the program [Saving to the PC]

To save the program (operation condition table) you have created to the PC, click "Save to the PC."



The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

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Once the program has been saved, click [Return to the "Main Menu."]. The screen returns to the main menu.

[Creating a speed vs. time graph]

[1] Click [Create a program using "V-T graph"]. Click [Next].



[2] Select and click one of six sample programs.

The screen shows an example where "Stop at 2 points with push motion (on approach)" is selected. Click [Next].

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Strengthere -	Select the Sample Presents	
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Graph		Page operation
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Lost Los tripogram	Braze at 2 points Date at 2 points	



[3] Select the stopping position input method from among "MDI (Numerical input)," "JOG (Motor drive)" and "Direct teaching (Manual)."

[Stopping position input by MDI (Numerical input)] Select "MDI (Numerical input)." Once you have made the selection, click [Next].

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Property law	They be hand the files Post	for it.		
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Provide a program	NOT Parmenceal Inputs The openity orders the product using the RC, teaching particular etc.	JOG Motor drive) Perspector works in the PC or holds the barding part of the actual part	Broot teaching Broot teaching (Barnat) The operator term off fer motor power and fer motor is short (Bas from 5 mars), storing the activation by more insighter. If the same octuber was broken is	Page op srafte bettons Rest Mart Merts

Set values in the stopping position fields of the "speed vs. time graph."



[Stopping position input by jogging] Select "JOG (Motor drive)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home	

Select the stopping position you must teach the actuator.

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When stopping at 3 points

When stopping at 2 points

Start point (Return)	*
Start point (Return)	
Intermediate point (Intermediate)	
End point(Approach)	

Start point (Return)	~
Start point (Return)	
End point(Approach)	

Click $[\leftarrow]/[\rightarrow]$ to move the actuator to the stopping position.

Click [Input]. The current position is saved as the stopping position you have selected.

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	66.66 0.10 to the two	

[Stopping position input by direct teaching (manual)] Select "Direct teaching (Manual)." Once you have made the selection, click [Next].



Click [Home] to perform home return.

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When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete





Click [Motor Power OFF] to turn off the motor power. The motor power (servo) turns off.

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	An even where the group of the second	

$\underline{\relline}$ Caution:

If you are releasing the brake of a vertically installed actuator, be careful not to let your hand pinched or the work part damaged by the actuator falling due to its own weight.

Select the stopping position you must teach the actuator.

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When stopping at 3 points

When s	topping	at 2	points
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Start point (Return)	~	Start point (Return)
Start point (Return) Intermediate point (Intermediate)		Start point (Return)
End point(Approach)		



Manually move the actuator to the stopping position.



The position is shown in the current position field. Click [Input]. The current position is saved as the stopping position you have selected.

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Main Ferrary Server the same attent check process Graph Server the same	Create a Program Construction Construction	Page operation
A Contract and A Contract of the second seco	(1) Manual Home Home (CFF (CFF)	Back
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	66.66 0.10 0.10 0.10	


[4] Select either the approach or return. If the actuator is stopping at 3 points, you can also select an intermediate point. Set values for the speed, acceleration, deceleration, push band and push force applicable to the speed vs. time graph. Select whether to enable or disable energy saving. Use the displayed tact time as a reference.

(The screen is based on MDI (Numerical input).)

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Party of the local diversion of the local data	Dreate a Program	
tady the ext	Thistop position entry Numerically other the stop positions on generally start points and reach, rend points [2] Entry in speed, submitting might Entry the speed, submitting might start, request with exceptioning option for general and mission inspectively.	Ann front Averagence
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Son the program.	121 Speed vs. Three (bash) (withink fields in the graph read to files) Reform Rescards (withink fields in the graph read to files) 66.66 0.38 mm 0.10 mode.	

When all necessary values have been input, be sure to click [Next].

When [Next] is clicked, the confirmation message appears with the message "Do you want to start transferring the data?"

Click [Yes]. Clicking [Yes] transfers the values in the operation condition table to the controller.

(Note) The values in the operation condition table will not be transferred to the controller if [No] is clicked.

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The following message appears while the data is being transferred.

When the transfer is complete, the display changes to the next screen for operation check.

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	L VIV I	

[5] Now you are ready to operate the actuator, so let's perform operation check. If home return is not completed yet, click [Home] to perform home return. If operation check is not performed, click [Next] to proceed to saving the program.

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	Operation check Operation check [1] theme return Check [2] Operation check Check [3] Confirmation Check [3] Operation Check Plat per complete [3] Operation Check

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	e [Complete]
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[6] Perform operation.

Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



Enable: Click [Enable] if you want to operate the actuator at the safety speed^{*1}. Disable: Click [Disable] if you want to operate the actuator at a speed above

- Disable: Click [Disable] if you want to operate the actuator at a speed abov the safety speed^{*1}.
- *1 Safety speed: The maximum speed is set to 100 mm/s or below.

[Step operation]

Approach (end point): Return (start point): Intermediate point: Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point. Click [Intermediate] to move the actuator toward the intermediate point in a program where the actuator stops at 3 points.





[Continuous operation]

- Start: Click [Start] to move the actuator between approach and return continuously (between the end point and start point) in a program where the actuator stops at 2 points. Similarly, click [Start] to move the actuator between approach and return continuously (between the end point and start point via the intermediate point
- Stop: Click [Stop] to stop the continuous operation.

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Ant the yearses	Cpertation conditions table: Return Averauch Genetices voil Averauch	- Enable Texator

[7] Saving the program

[Saving to the PC]

To save the program (operation condition table) you have created to the PC, click "Save to the PC."



The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

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Once the program has been saved, click [Return to the "Main menu."]. The screen returns to the main menu.

5. First, Try Simple Operations

Try moving an actuator according to the values set in the operation condition table in the controller. You can choose positioning operation or push-motion operation. Although the operation conditions are initially fixed when this menu item is selected, the speed, acceleration, deceleration, push force and energy saving setting can be changed afterward.

[Initial operation conditions]	
Stopping position:	Full-stroke position
Speed, acceleration, deceleration	tion: 1/3 of defaults (factory defaults)
Push band:	1/2 of full stroke
Push force:	30%
Energy saving:	Disabled
Stopping position: Speed, acceleration, deceleration Push band: Push force: Energy saving:	Full-stroke position tion: 1/3 of defaults (factory defaults 1/2 of full stroke 30% Disabled

Click "First, try simple operations!" from the main menu. Move your actuator according to the onscreen instructions

What You Can Do with the MEC PC Software (Main Menu)	nt in Setter
Main Moral Check program operations: Whether the the parameter is a subject of the second of the sec	What You Can Do with the MEC PC Software (Main Menu)
First, try simple operations! (Notes response to the service of the service	Main Monu Clask each applicable screen. (nourcen click each underlied warv) in the tax ward to do, and proceed to the applicable screen. (nourcen click each underlied warv) in the tax are "Closesty" screen visit are you can check the meaning at the word)
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5.1 Performing Positioning Operation

[1] Click "First, try simple operations 1 (positioning operation)."

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No.1, by caught more diversi Plate gradience mole or problemsky		Pege operation Softern
First, by alight operational (Upseudoss check)		Main Mercel
Filish	When the second se	

[2] Click [Home] to perform home return.

of the state strengths.	Hest, Try Sarphi Open/Hansi (Open/Han Claick)	
fradia francia a	[1] Running of Reas return Clash "books -" Confirm that when home return is complete, the large becomes it: When you are done, only There" on the right.	Siarer Freed
Sect, by sing its part (by sing its Solution of Solutions	(1)Running of Home Return Home Pool we complete)	Pega operation
Positioning	12) Operation Check	Rack Main Men
ngen offensi (Openation check) Pendingengi Inver the Levaners	Return (madata former) Start Stop	thest
		Garrently
	[3] Speed vs. Time Graph Brium Asercach	Diratio
	An attribute (01) An attribute	

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home [Complete]	
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When the home return is complete, click [Next].

[3] First, try moving your actuator.

Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



- Enable: Click [Enable] if you want to operate the actuator at the safety speed^{*1}.
- Disable: Click [Disable] if you want to operate the actuator at a speed above the safety speed ¹.
- *1 Safety speed: The maximum speed is set to 100 mm/s or below.

[Step operation] Approach (end point): Return (start point):

Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point.

All the second second second		- 1 i - 12
All loss, trap samples	First, Try Simple Operational (Operation Check)	
Plats News	[2] Devration thesk Under Step Operation, which " Assume " or " Param, " and the estuator will operate one way in the executed direction. Under <u>Continuous Controls</u> , elike Start" to start bask and offer operation, and "Stop" to stars the operation. When you are done, dok "Telest" on the right.	Harm Tieser Harminister
and, the second	(1)Running of Home Return Home (Damplete)	Page operation bottone
REAL PLANTS ROUTE		Back
Positioning	[2] Operation Check Quentl poster	-
Pendiamat operational (repeation dente) Providening	Retarn Jeter Period Start Stop	Next
Sectleproper		
	· · · · · · · · · · · · · · · · · · ·	Linebic
E Finish	F31 Speed on Time Graph	- Enable
	Bettern Assessed	and the second
	Terrending over a second secon	



[Continuous operation]

- Start: Click [Start] to move the actuator forward and backward continuously (between the end point and start point) in a program where the actuator stops at 2 points
- Stop: Click [Stop] to stop the continuous operation.

E an United Southers		6 T 6
And Street	Herd, Try Sergie Openitional (Openition Clerk) [2] Openition disk (Fide: "Sec. Openition", which " Account," ' or " Ending, " and the schatter well openition are with the assessed diversion under Continuou Control on, ask, "Sart" to start back and forth openition, and "Stop" to start back and forth openition.	Siarre Freier Warstweiten
Sec1, Say-sequiti Second second Solid Second Second Second Based on public second Second	(1)Running of Home Return Home [Complete]	Pege operation buttom
PostBorning New, by while new files (Denotion cloud) PostBorning New file (regime	[2] Operation Check Outbours constant 0.00 State constant Start Stop Outcost has Return results Start Stop Outcost has Image: Start Stop 0.00 Outcost has	Main Menu Finit Safety speed Correctly
Finish	(3) Speed vs. Time Graph Follow Ascroach Sectors 100 Station of Station of	Ernature Dination
	Reflection Association of State State S	Bushin

[4] On this screen, you can change the speed, acceleration, deceleration and energy saving settings. Select either the approach or return.

Change the speed, acceleration, deceleration and energy saving settings.

After the changes have been made, perform step operation and continuous operation to check how the actuator operates.

When the operation check is complete, click [Next].

and the statements		E 14
A No. by posts.	Heid, Try Sarphi Operational (Operation Clerck)	
Mada travas	Thy thanging the values of gated, a scherodar, and destination, and execution of the scherologic sche	Siaren Rosert Walertverarten
Sect, lay-seque	(1)Renning of Home Return Home [Complete]	Pege operation buttern
States, the position of model .		Back
Powerbring	[2] Operation Check Operation	
Hest, by single reproduced (operation check) Physician ()	Retarn recards are the start and the start a	
man pur brochunt		Carrothy Gradient
Finish		The states of
	[3] Speed vs. Time Graph	
	Beturn Associate	Binabin
	The section of the se	1
	00.00 there are a start the start of the sta	
	0.10	
	0.10	
	Landau and L	1 C C C C C C C C C C C C C C C C C C C



- [5] Saving the program
- [Saving to the MEC]

To move the actuator by reflecting the speed and other operation conditions you have just changed, click [Save to the MEC]. Turn off the power and then turn it back on. The actuator will move according to the new operation conditions such as speed.

e the Program et allete la save the involve/home locion of doctorition is unnocessar en finisted, clob "Hain Heru" on t	vbet <u>program</u> with the program need not be saved.) twinight	Alarry Roost Raterance
en linisted, club "Nein Henu" on t	hwright.	- Internation
		Page operatin bottoms Unch Man Manu Next
Save to the MEC	Save is the PC	
	Strip to the MEC	Serve to the MEC

[6] Saving the program

[Saving to the PC]

To save to the PC the changes you have made to the speed and other operation conditions, click [Save to the PC].

Here's States		11 🗃
President Stratter	Save the Program	
visalts/Horisa	Select where to save the oracle/(consided_contents) ((Selection of definition is unrevenue) if the program need not be valued.) When thisteed, click "Nein Nerva" on the right	Alarm Reart
Protection of the parameters (reduce the parameters) (reduce the parameters) (Save to the NEC	Pope aperation Buttons Mark Mine Mine [Treat



The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

eve As							(?)
Save ini	C RiPc		*	9 - 11	Q X D	1	Tolaki +
Hy Recent Decuments	Axsis03	p¢po					
Desktop							
Wy Computer							
He Network	File gane: 🤇	Axisis03	\geq			×	Save (S)
Places	Save as type:	PIMEC files (*b	kpm)			*	0

Once the program has been saved, click [Return to the "Main Menu."]. The screen returns to the main menu.

5.2 Performing Push-motion Operation

[1] Click "First, try simple operations 2 (push-motion operation)." Then, click [Next].



[2] Click [Home] to perform home return.

an ore contained		C 1 🖉
The support	First, Try Single Open Annel (Open dan Datch)	
Analysismetrics	Barring of Ree Inform Code - Home - Code - Home - Code - Home - Code - Home - Home refurn is complete, the large becomes it: When you are done, only There' on the right.	Narre Finner Nurramater
Sect, Gy - deg de poet of terrol	(1)Running of Home Return (Home Post we complete)	Pege-operation buttom
Push motion	[2] Operation Check	Back
test, by single specifices (Operation steck) Destruction	Return (nedate former) Start Stop Betaxy Former	Main Menut
line: the program		Soldvare Correctly
Contraction of the local division of the loc	•	
Finish	(3) Speed vs. Time Graph Reform Ascreach SSL69 Nucleonation(3) Nucleon	Disable

When the home return is complete, the lamp next to the button comes on and the text below it changes to [Complete].

[1] Running of Home Return	Home [Com	● mplete]]
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When the home return is complete, click [Next].

 [3] First, try moving your actuator. Two types of operations are available, step operation and continuous operation. When the operation check is complete, click [Next].

[Safety Speed Setting]



- Enable: Click [Enable] if you want to operate the actuator at the safety speed ^{*1}.
- Disable: Click [Disable] if you want to operate the actuator at a speed above the safety speed ¹.
- *1 Safety speed: The maximum speed is set to 100 mm/s or below.

[Step operation] Approach (end point): Return (start point):

Click [Approach] to move the actuator toward the end point. Click [Return] to move the actuator toward the start point.

COLUMN TRADE		5:00
al rot, the result	t and, Try Single (percitions) (Operation (Deck)	
-tain terral	[2]Operation that Under Stat Develop	Anne Reest Maintanthia
ford, the simple representations	[1]Running of Home Return [Complete]	Pege speration Suttons
wards of all the resider 1	*	6044
PSATINOOD	[2] Operation Check Garent position	Concession of the local division of the
Finit, my skople operations (listeration check) Finite motion Name the program)	Return Total Agencial Start Stop Unitered from the point of the point	Main Marie Next Solution Cartoolly Todated
Finish	fill Enged on Time Grants	Enable
	Between Associate	and the second second
	According to the set of the set o	Drashir



[Continuous operation]

- Start: Click [Start] to move the actuator between approach and return continuously (between the end point and start point) in a program where the actuator stops at 2 points.
- Stop: Click [Stop] to stop the continuous operation.

ACO POTE THE O		1910
to an a first section.	First, Try Simple Operational (Operation Check)	
Hadi Haral	(2) Operation check tinder: Stop Operation, welsel," <u>Automotic</u> 1 or " <u>Solution</u> , "and the estator will operation as way in the selected direction, inder <u>Continuous Decision</u> , data "Stor" in state and observed operations, and "Stop" to stop the operation. When you are done, click "Teat" on the right.	Harry Bear
And the second	[13Reaming of Home Return Home [complete]	Page operatio battoris
Eabort the paratisenters, which so lands paratise	· · · · · · · · · · · · · · · · · · ·	Back
Push motion	[2] Operation Check Gummitsselling	
fand, try sinple operationst	Structurentikan Continuum controllar	Main Mem
Pash methon	Return ratter Verrent Start Stop	These (
man the propagation		
		Solidy stor
	10.00	Ended
Finisht 2	Press and a second second	Enable
	[3] Speed vs. Time Graph	-
	Return Associath	Distance
	inpositionalise) where any had been been been been been been been bee	1
	- Ed. Star (Barchaubagi) Damar sadaa	
	0.10	
	Anthrytheador	
	0.10	
	Sector Andreas	1

[4] On this screen, you can change the speed, acceleration, deceleration, push band (only for the approach), push force (only for the approach) and energy saving settings. Select either the approach or return. Change the speed, acceleration, deceleration, push band (only for the approach), push force (only for the approach) and energy saving settings.

After the changes have been made, perform step operation and continuous operation to check how the actuator operates.

When the operation check is complete, click [Next].

Concentration of the second		1 A
Change and Subsystem	First, Try Simple Operational (Operation Check)	
	First, check the meanings of pulti-instance percentary , pull hand and pulli-force. By delang	Harn Bearl
and a second second	Not ordering the marrings of these words, by changing the values of Setting, and addition	Telefierence
	and departure stand account and object as denote make the restance. Also review how the standard mark the standard account of the rest. When you are note, data Twist? on the rest.	perchange
	[1]Running of Home	Page operation
And, 25 (aral) Upter/Deer/	Home Return [Complete]	buttam
Report the court and and		Back
Push motion	[2] Operation Check Garrent postion	-
Hest, try-sarges	Seconstation0.00	Marr Merry
(Operation date)	Return Start Stop Unices for	Next as
Post motion.	0.00	
Base the program		Saleta sue
	And all and a second se	Currently
(Common of the local day)		
E Fittish	[3] Speed vs. Time Graph	firmitie
	Beturn deersuch	Director
	Taxanilan (an) ("Territor Tartition Statement" Surgest 1	And in case of the local division of the loc
	65.55	
	0.10 Redain	
	(condections)	
	0.10	

[5] Saving the program [Saving to the MEC]

To operate the MEC controller by reflecting the speed and other operation conditions you have just changed, click [Save to the MEC]. Turn off the power and then turn it back on. The controller will operate according to the new operation conditions such as speed.

Here's Contenn		21 B
Peaks Storms	Sever the Program Select where to save the proded/constant information (Selection of destination is unreasonary if the program need of When timitated, disk "Nam Merci" on the right	(Alarm Recet)
Prof. for particular resolution of the post-resolution (block of the post-resolution) Posts modilion (operational (operation) (operation) Posts modilion See: the program	Save to the MEC	Battons Bats Mars Menu Hest
- Finish	\mathbf{O}	

[6] [Saving to the PC]

To save to the PC the changes you have made to the speed and other operation conditions, click [Save to the PC].

I BECCOLOMB		10 M
Annal Destruction	Save the Program	
Haritere	Solet where to save the meeted/connected intertain (Selection of idealmenters is unnerveauxy if the program need not be served.) When frequent with "New Man Constraints"	Marre Recet
First, the stands Sector to produce any sector of sector and sector of sector and sector of sector and sector of sector Pacific motion First any wingle operational (sector Pacific motion First any sector First any sec	When iterated, disk "When Mens," on the right.	Page aperation buttom Unick Main Memu Heat

The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the program (operation condition table) you have created will be saved to the PC.

Save As							2
Save ini	C RdPc		÷	8 - 1	Q X	날 🛄 + 1	olaju +
Hy Recent Decaration	Axsis03;	pipe					
Desktop							
My Documents							
Ny Corputer			_				
My Network Places	File gane: Save as type:	Axisis03 PMEC files (*	*bkpm)			*	Main Menu

Once the program has been saved, click [Return to the "Main Menu."]. The screen returns to the main menu.

6. Checking Program Operations

6.1 Checking the Operation of a Program Saved in the MEC

You can check the operation of, or modify, a program you have created. Click [Check program operations] from the main menu. Check the operation according to the onscreen instructions.

What You Can D	Oo with the A	MEC PC Sof	tware (Main Menu)	Alarm Reset
Circi	t try cimple oper	screen where you can ch	eck the meaning of the word.)	
- III	t, try simple oper.	actionist (vvare to experience	e the basic operations or this software,	
	First, t	ry simple oper	ations!	
Crea	ate a program ova	nt to create a new program)		
-	1105			
		- /	1	
Cr	eate a new program	Create a new program using the "table"	Create a new program	
• <u>Che</u>	<u>ck program opera</u>	tions (Want to check the i	operation of, or correct, a program alread	ly created)
	Check	program oper	rations	
		<u> </u>		
		<u> </u>		

[1] Click [Operation check with a program saved in the MEC].

The programs (operation condition settings) currently saved in the MEC controller are read to the PC. Click [Next].



[2] Select and click a desired display mode of the operation check screen. Click [Next].





[3] The selected screen opens.

[When "Graph" was selected]

A speed vs. time graph is displayed.

You can use this graph to perform operation check.

The operating procedures are the same as those explained in 4.3, "Creating a Speed vs. Time Graph to Move the Actuator."

AND TRANSPORT		
	Description Check Disk Name Disk Name <thdisk name<="" th=""></thdisk>	Alarm Monet Maintenance
Graph	[1] Renning of Home Return Home Pot wit couplete]	Fage operation bettore
Approximated Lines Contenent	(2) Operation Check Output of the check Output of the check Total control of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check Nonucle of the check Output of the check Output of the check	Man Ment Meanly Edds aread Groups
Marilly (Ter program)	Operation conditions table	Death

To correct the program, click [Modify].

AB 15 PM Contents		101
Maintena Antonia program MEC	Dependion Check (1) Home Industry (2) Operation check (2) Operation (2) Operation check (2) Operation (2) Operation check	Alarm, Frend Walerteration
dent termer	(1) Running of Home (Net yet complete)	Back
Results des En con Frank	[2] Operation Check Contraction supported Contraction supported Contraction supported Return [http://contraction.com/supported Start Stop Start point Definition [http://contraction.com/supported Start Stop Start point	Main Menu Modify Edety see
dobly the program	Operation conditions table Refurn Average Providencian (see) Refurn (see) R	Eridoe Deator

The display switches to the program edit screen.

The operating procedures are the same as those explained in 4.3, "Creating a Speed vs. Time Graph to Move the Actuator."

Number of Street of Street	Consideration of a Decision of States and States and	
Graph Graph 2014 - Spanner 2014 - Spanner	Select whether to "Skind Jonets" or "Skind Jonets" " After the solution is much, doi: Teat" on the right	Silere Brie
Participant of the second seco	Stop at 3 points	Bach Suttorn Main Men

[When "Table" was selected]

An operation condition table appears.

You can use this table to perform operation check.

The operating procedures are the same as those explained in 4.1, "Creating an Operation Condition Table to Move the Actuator."

an 1999 Sorteen						6 M 🖄
Andrew States	Decration Check [1] Home return [2] Operation check [3] Cardimistion	The Property of Control of Contro	ni rakati ta completi nelecti " ann nella ta nel sitta ta fatta e deno. 186. Ta Ante ta 15 se. 160.3.	ng, Mar Langs Intervent The Description of the Marchael Assertion The Unit Light and for any Marchael Contents any Marchael Contents	¹⁰ ¹⁰ Islami ¹ and ¹⁰ Specific Art 11 Specific Art	Silaren Firmer Maintxenarren
teksi idengan men dingk termin Table	[1] Running of Horse Return	Home	0 4 yet comple	w)		Pega operation buttern
geneties des En 27 Constant	(2) Operation Che		Start)[Stop	internet position internet Positi ant positi	Main Menni Modify Sofety speed Convertie Society
	Operation rondition	ins table				Enables
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	· Shet aven	6.00	00.00	0.10	0.30	
	EnLoot (According	38.00	66.66	0.10	0.10	
	4	_			ja j	0

To correct the program, click [Modify].

	Concentrations (Theorem					
Appendix check	[1] Home return [2] Operation check (3) Continuation	The barries and share two tryles that share two tryles are share with early tryles contracted the "Chap" to share the spec other the share share, so charts the program, of	and set of the set of	n, fin large beroom The berooks of a defeat been the 's, the black and far an thesa' as be right	n " fallas " ant anaratio, ant d'yaa med qa	Slarer Re Multimera
dent German	[1] Running of Home Return	Home	0 4 yet complet	w)		Battarr
Constants to b	[2] Operation Cher	ok a		Č	erent position	Main Me
	Return contain		Start	Stop	starte Role Lart point	Mostly
			Start	Stop .	darps Rold	Modify Balety see Correctly Greated
andly the program	Correction randition	rn table	Start (Stop	Distance Fools	Mostly Scietyspe Correctly Database Plander
addy the program	Cherotion random	n toble	Start (Stop	Denerator Denerator Data	Moonly Safety une Concelly Studies Endow Disable
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The display switches to the program edit screen.

The operating procedures are the same as those explained in 4.1, "Creating an Operation Condition Table to Move the Actuator.""

	Stopping at 2 Points or 3 Points?	
Table	Select whether to "Stand Joseph" or "Stand Joseph" After the solution is made, close Telect" on the right	Norm Provi Viertemater
Parks and the second se	Stop at Spoints	Pegi-operation Soldarra Mater Merca Nant

6.2 Checking the Operation of a Program Saved in the PC

You can check the operation of, or modify, a program you have created. Click [Check program operations] from the main menu. Check the operation according to the onscreen instructions.

Increase ET4
What You Can Do with the MEC PC Software (Main Menu)
Main Monu Click each applicable street. (Noucan click each updatised wind) of the street in the second state of the second state of the second state of the street in the second state of the second state of the
 First, try simple operations! Month network to have approximately approxi
First, try simple operations!
Create a program (Werts could a two prepart)
Create a new program using the "V-T graph"
Check program operations (Want is check the generation of an const. symptom shouly chand)
Check program operations
In the second seco

[1] Click [Operation check with a program saved in the PC].





The "Open File" screen appears. Select a desired file name, and then click [Open].

iper .					
Leokjis	(C) INPA		18 X (a)	🗌 + Tes	\$+
No Facosi Documento Designing	∰Autitie	1			
Hy Documents					
-	No parts:	Aut		- (<u>O</u> pen
Flaces.	Mark of Sector	AMET Files (FILME)		-	Canox

On the confirmation dialog box, click [Yes]. The program (operation condition settings) is transferred to the MEC controller from the PC.

(Note) If [No] is clicked, the program will not be saved to the MEC controller.

2	The applicable information is transferred to the MEC controller. Once all information has been transferred, the motor power will turn OFF automatically to restart the controller. (The power will turn ON automatically after the restart of the controller.)
	Do you want to start transferring the data?

The following message appears while the data is being transferred.



[2] Click [Next].



[3] Select and click a desired display mode of the operation check screen. Click [Next].

HE STREET HERE		- 141 A
Analysis frances	Select the Queration Deck Sorress Generalized by the Selection Transmiss of Constant and Brasilian Con- tee operation deck screen	Sares Firest
Selvel operations	Abe for selection is made, disk "text" on the right.	
table i the same sites		Pega operation buttarn
rereation does		Main Menu
Finish		T. rest
	Distay a propriet	
oddy the program		



[4] The selected screen opens.

[When "Graph" was selected]

A speed vs. time graph is displayed.

You can use this graph to perform operation check.

The operating procedures are the same as those explained in 4.3, "Creating a Speed vs. Time Graph to Move the Actuator."

HER CONTRACT.	and a second a second a second as a	121
Hamilton Typesteriotek Select a program P. C	Operation Check CAR "Scale" [1] Home return CAR "Scale" [2] Operation scheck Control the accelerate return is complete. For Large transmers III. [2] Operations check Inde "Scale" "Scale" "Scale" "Scale" "Index "The scale of the scale o	Alarm Read
Columba and a	(1) Running of Home Return Home Plot yet complete]	Page operation Buttoms
Openskonstenet Elizzak Flaten	(2) Operation Check Story occordson Return Inter- rectary Operation Start Stop Start Stop Start Stop	Marris Marris Marchily Ballety speech Carriently
Shelly The property	Operation conditions table Return Aserosch Go.05 Enable Disame	

To correct the program, click [Modify].

	Tell:
Departation Check Cell "Base" Cel	Alarto Russ Baletaratos
[1] Running of Home Return [Four yet complete]	Page operation butters
(2) Operation Check Ommit protein Bits carefolder Geriffranke commons Water Start Start Stop Bits carefolder Bits carefolder Bits carefolder Bits carefolder Bits carefolder Stort Stort Stop Bits carefolder Bits carefolder	Murr Mone Money Edithe second
Come Elline	Disable
	Deveration Devel Control Development



The display switches to the program edit screen.

The operating procedures are the same as those explained in 4.3, "Creating a Speed vs. Time Graph to Move the Actuator."





[When "Table" was selected]

An operation condition table appears.

You can use this table to perform operation check.

The operating procedures are the same as those explained in 4.1, "Creating an Operation Condition Table to Move the Actuator."

HER CONTRACT						121
POINTERN Paramentern Delect a program	Operation Oreck [1]Home return [7]Operation check [3]Confirmation	CAD, Macani, ¹ country fluid, and we can be accountry will good other Canadiana, Jan Mary for share the spec- adar for conferences, and and the program, of	e riffani is simple efect " accoud- s dhe war in the a data did "Start data. tital "Batam Islik si "Modik."	 Te loop becade including the second including the second second in the second second second and Mersel on the reptile 	n. * Autor * ere Roschelor, son Roscheld to	Aurre Ree
Columnation South Assess	[1] Running of Home Return	Home	e 4 yet comple	ter)		Page operations
Bendenders Benden Finish	(2) Operation Che Stree score (1997) Return Translate		Start (Stop	And an or a second seco	Man Men Modily Salety scene Correctly Correctly
multy the program	Operation condition	ns table Stapped	Steed	Automation (Onderston	Enable
	+ Darizori	1002	66.66	0.10	020 0.10	Date
	Roducent (Manualti)	30,00	66.05	0.10	0.10	

To correct the program, click [Modify].

	the second s					
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Columnia and Annual Annua	[1] Running of Home Return	Home	e 4 yet complet	e)		Page operations
Finish	[2] Operation Che Stee.voorubon		course and	<u> </u>		Marr Merry
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sulfy the program	Operation condition	es toble		stop (Condestant Condestant Condestant Condestant	Bolitiz sze Galato Enable Disable
suffy the program.	Operation condition , Signing Enderni (Sancacti)	es table Stoppio scatoo scatoo scatoo scatoo scatoo scatoo scatoo	20000 00000 00000 00000	am	Condension Galler Condension Condensi	Solutive Solutive Content Content Content Distance

The display switches to the program edit screen.

The operating procedures are the same as those explained in 4.1, "Creating an Operation Condition Table to Move the Actuator."

and a second second		- E E E
Table Table Bester of Southart 2 Points	Stopping at 2 Points or 3 Points" Select whether to "Stop at 2 points, " or "Stop at 3 points," After the selection is made, also 7 left" on the right.	Aurra Recet Marterance
The Inspective for The Inspective Constitution NO Prain dimension Prain dimension Prain dimension Prain dimension Constitution Constit	Stop at 2points	Page aperation Buttons Back Man Memu Next

7. Monitoring I/Os

To display the I/O monitor screen, click [I/O Monitor] on the menu screen.

a Martineo	Color state: (a) years taken and explanation in the year state in the second stat	Ľ
•	but, by skuple operational processing to but an advert	
	First, try simple operations:	
	and a lange of the second s	
	ITAL ADDRESS PORT OF THE DESIGNATION	
	1 1 1	
	Onde areas program. Onde areas program. Onde areas program.	
•:	hest program approximations provide the second of a latest structure error manual	
	Check program operations	
11	Check program operations	

To check the input/output signals, you can monitor the input and output ports. Click [Output test].

Input Pe	<u>ert</u>		Output test
Symbol	Name	Status	<u>م</u>
STO	Start pos.0	OFF	
-	(Reserved)	OFF	
RES	Reset	OFF	
-	(Reserved)	OFF	
Output F	(Reserved)	0FF	
- Output I Symbol	(Reserved) Port Name	OFF Status	
- Output I Symbol LSO	(Reserved) Port Name Limit Sw 0	OFF Status OFF	
Symbol	(Reserved) Port Name Limit Sw 0 Limit Sw 1	OFF Status OFF	
Output I Symbol LSD LS1 HEND	(Reserved) Port Name Limit Sw 0 Limit Sw 1 Home complete	OFF Status OFF OFF	

A warning dialog box appears. Click [Yes]. This forcibly turns OFF the signals.

Symbol	Name	Status	
STO	Start pos.0	OFF	
	(Reserved)	OFF	
	loging the window m eck the influence of	itums the output to origin peripherals with these t	vel state) orced outputs.



Click to select the port you want to turn ON the output of, to forcibly turn ON the signal.

1/0 Test	- E I = 🔀
0071:158	
DOUT2:LS1	
CONT3:HEND	
COUT4:*ALM	
Close	Î.



8. Editing Parameters

To load parameter data from the controller and change parameters, click [Maintenance] on the menu screen.

What You Can Do with the MEC PC Software (Main Menu)
Main Merit) Click each to down below that corresponds to what you want to do, and proceed to the applicable screen. This can not a such and index to the reason of the source) First, try simple operations! (Prest, try simple operations! Click each program (Next to base each program) Click each program (Next
Erest, try simple operations! First, try simple operations! Erest a program Create Create a program Create a p
First, try simple operations! Create a program (varue practice) Create a recognition
Create a program (Varian page a response)
Charles a range program Standar 10 of graph" Standar 10 of graph"
Check program operations, investo cach na specifica at increase, a proprior analy making
Check program operations
IAI

Menu Screen

[1] The maintenance screen appears. Click the [Parameter] tab. The parameter screen appears.

arm History	Paramoter	Version Information	Bocloug
t of <u>constructions</u> is a de these parameter of change these parameter controller or actual controller or actual	lisplayed by an instantial of the second sec	the set before the MEC contr the adjusted to operate the ly boxouse depending on the cossive loads and suffer dark	roller can be a controller. new paramet sys.
8	NOTE	1.5	Voluo -
Position band In	en)		0.10
(For future expe	rision)		30000
Sarwo gain saler	tion		9
Torque filter cor	staot		0
Speech koop prop	ortional gain		840
Speecel koops Index	nal gale.		6654
Push speed) and	wec]		20.00
Push recognition	time [msec]		235
Pushing fails con	rent (0.9kpp/1.4km	6	0
Automatic servo	off delay time [see	4	1
i (if or future expa	relan)		0.0
For future expo	nsionà		100
Default home cu	(of) tink teem		500
4 (Por future enpo	mian)		
Soft limit (mm)	2000		20.00
Hame offsetjinn	1		1.30
7 Home direction	0.0pposite/1.0ela	NR)	1000
6 d'or future expe	(nkai)	1997 - Contra 19	0
🖓 🕼 ar future mepa	milan)		0
For hiture estre	reskan)		0

[2] Click the set value of the parameter you want to change, enter a new value from the keyboard, and then press the ENTER key to input the value.

are History	Parameter	Vanion Information	Backup	
t of <u>unconstant</u> ats these parar at change thes castroller or ac	is displayed that me return only if they ma a personators consistent fundor may receive as	it be set before the MEC costs of the adjusted to operate the dy because depending on the cossive loach and suffer done	oller can be q controller. rese paramete Q5-	peratust. e values,
2	Nate:	10	Value	
Position has	d (mm)		0.10	and the second second
(For hiture e	(roianaiori)		10.004	1000
Serve gain si	dection.			
Torque filter	constant			
Speed loop p	report leaved gots		040	
Spanod loop b	ningral gain		6604	
Push speed)	unt/sec]		20.00	
Push recogni	h recognition time [msec]		25.5	
Posting fails	ournest (DiStop/1/Por	41		
Automotic se	rwo off delay time [se	8]	.8	
for hours e	(roleretap			
() (For huture of	spansion)		26	
Default hors	e current limit (%a)		100	
For future e	spanision)		30	
5 Soft limit (m	(e)		20.08	
Home offset)	ine)		1.20	
Pione directi	on [0:Opposite/1:Def	sult]		
(For hiture o	(nolenecp)			
0 or hitsree	(noiwrae)			
a lotter first and a	Conclusion inco		1.00	

[3] Click [Save to the MEC].

The new parameter wetting is saved to the MEC controller.

Jam P	Interv	Parameter	Vanion Information	Do	ciup
at of parallelse the not che construe	ese paramet ingo these p der or actur	displayed that me ars only if they me anameters coreines for may receive co	t be set before the MEC or it be adjusted to operate t by because depending on it cosive leach and suffer do	ntroller can he controlle we nese para mage.	ibe op r. meter
0		Name	1	Water	-
I Pos	ition band ()	nen]		8.14	A second
2 050	r hiture exp	ansion)		11000	1
s Ser	vo gain sele	ctilon			1 d'
a Tor	que filter co	ristorit			7
Sim	and loop prop	portional gots		.040	_
5 5400	lased loop integral gain			6004	
r. Pus	ah speed[nm/sec]			20.00	
8 Pus	h recognitio	n time [msec]		355	
0 Pus	hing fails ou	ment (DiStop/1/Put	d1]		
B Aut	condit serve	o off delay time [se	đ		
1 0 10	r future expa	analon)			
2 00	r huhune soga	(noiere		26	
3 Def	sulf hame o	arrest limit [%o]		100	
4 00	r future expansion	wision)		30	
5 Sof	t limit [mm]	52.0250		20,08	
ti the	ne offset(m	+j		1,29	
7 110	ne direction	[0:Opposite/1:Defe	nit]	1	
0 Ja	r huture soga	(nolene			
9 0 10	r hiture exp	anwion)			
a late	Extrans. com	(noises)		1.00	

Click [Main Menu] to return to the main menu.

9. Alarm Display

9.1 Alarm Display upon Generation of Alarm

When an alarm generates, [Alarm generated: 0E7] changes to red. At the same time, a message indicating the nature of the alarm and remedial action appears. Take an appropriate action according to the message. When [OK] on this message dialog box is clicked, the message dialog box closes.

Construction of the second secon	
First, Sy should not always	
First try simple operations!	
• Section of the sect	
Charles and an an an	
Gitter program operations	
Check program operations	

9.2 Alarm History

To display the alarm history, click [Maintenance] on the menu screen.

What You Can D	to with the Λ		tware (Main Menu)	Alarm Reset
🥖 Main Menu	Click each 🥘 show applicable screen.	n below that corresponds to (You can click each under screen where you can cho	what you want to do, and proceed t ined word in blue to open the "Glossary' ack the meaning of the word.)	o the
First	try simple oper	ations! (Want to experienc	e the basic operations of this software)	
C	First, t	rv simple oper	ations!	
_				
• Crea	te a program (Wa	nt to create a new program)		
Cr	ate a new program ng the "V-T graph"	Create a new program using the "table"	Create a new program using a "sample program"	
Che	k program opera	ations (Want to check the o	peration of, or correct, a program alreat	dy created)
C	Check	k program oper	ations	1.000 CALL 10
	5			
And a Contain the second of	NET I Internet Maria	Citrastony/	IAI	



- 9.2.1 Displaying the Alarm History
 - [1] Click the [Alarm History] tab. The alarm history appears. The last detected warning code, 16 most recent alarm codes and addresses where a runtime error generated (for use in the manufacturer's investigation), detailed codes and times when warnings/alarms
 - generated are displayed.(Note) A power ON log entry (no error) indicates that the controller power was turned on. This is not an error. The time of generation indicates an elapsed time after this power ON log entry (no error).

Clicking [Refresh] refreshes the display to the latest information. Clicking [Clear] clears the history. AMEC and PMEC Display

Alamited	۳Y	Parameter Version Information	e Br	kilip	
Abistor		provided by the MEC controller is displayed.	Chor	1	telresh.
Testory	Corle	Mexicage	Ackines.	Detail	Time.
Setected last	PPP	PowerUP No Error			- 1:3-
History 1	UE7	Disconnection of Encoder A, B and Z pulse		inis.	0000/07119
History 2	000			+-++	
History 3	000				
History 4	000				
History 5	000				
History 6	000			+=++	
History 7	000			+-++	
Historyil	000				
History 9	000				
History 00	000		100	1000	Second State
HINDORY 31	000			Tata	-total-
History 12	000			1010	annelest-
History Cl	1000				
History 14	000				-metiopsi-
	Children .			Anda	

Display When ERC3 PIO Converter (Option) is Used For ERC3 PIO Converter, the time when an alarm is issued is displayed.

Alarm Histor	ry	Parameter Version Informat	ion	Backup	Set Clock
A history of a	alarms g	enerated by the MEC controller is disp	layed.	lear	Refresh
History	Code	Message	Address	Detail	Time
etected last	FFF	PowerUP No Error			11/08/01 12:34:56
History 1	0B7	Pole is uncertain	7755	0001	11/08/03 12:34:56
History 2	FFF	PowerUP No Error	A 4 4 4		11/08/05 12:34:56
History 3	0E7	Disconnection of Encoder A, B an			11/08/07 12:34:56
History 4	0E7	Disconnection of Encoder A, B an	****	0002	11/08/09 12:34:56
History 5	FFF	PowerUP No Error	1015		11/08/11 12:34:56
History 6	0A1	Parameter error when executing	0802		11/08/13 12:34:56
History 7	FFF	PowerUP No Error			11/08/15 12:34:56
History 8	0A1	Parameter error when executing	0802	10000	11/08/17 12:34:56
History 9	FFF	PowerUP No Error			11/08/19 12:34:56
History 10	0A1	Parameter error when executing	0802	12222	11/08/21 12:34:56
History 11	0A1	Parameter error when executing	0802		11/08/23 12:34:56
History 12	0A1	Parameter error when executing	0802		11/08/25 12:34:56
History 13	0A1	Parameter error when executing	0802		11/08/27 12:34:56
History 14	FFF	PowerUP No Error	****		11/08/29 12:34:56
010000000000000000000000000000000000000	041	Parameter error when executing	0802		11/08/31 12:34:56



- 9.2.2 Saving the Alarm History
 - [1] You can save the alarm history by clicking [Save as]. (Version 1.00.05.00 or later)

Alamitist	ory.	Parameter Version Information	- B	idup :	
A history of	alartra	presented by the MEC controller is deplayed.	Char	1	(un visite)
History	Code		Alkiresa	Detail	line
intentiod last	111	PowerUP No Error		+	
History I	007	Disconnection of Encoder A, B and Z pulse		1000	0000-07:99
History 2	000				
History 3	DDD		-		
History 4	DDD		1.000		
History S	000				
History 6	DDD			-	
History 7	000		-1		
reabory 8	000				
History 9	000				
History 30	000				
History 11	000				- sectors to -
Hestory 12	000				and project
History 53	000		iniai (-	impipie
History 14	000				
Mathema U.S.	000				i metitic.

[2] The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the alarm history will be saved.

Seve As			2 🛛
Save ini	C RaPe	🛩 🛞 - 🖪 💐 🗡 📴 🗍 + Toolu+	
Hy Record Decuments Desktop	Axsia03ptpc		
My Documents My Computer My Network Places	Fiergane: Axisis03 Save as (poer	s (*bkpm)	ve (S)


- 9.2.3 Printing the Alarm History
 - [1] You can print the alarm history by clicking [Printing]. (Version 1.00.05.00 or later)

Alam Histo	wγ	Parameter Vanion Informatio	n Br	ckup	
A history of	alarras -	provided by the MEC controller is displayed	Char		Heliresh:
(interv	Code	Nessage	Ackiness.	Detail	Time.
detected last	PTF .	PowerUP No Error			-13-
History 1	0.7	Disconnection of Encoder A, B and Z paine			0000(07):19
History 2	000		-++++	++-	
History 3	1000				
History 4	000				
History 5	000				
History 0	000			+=++	
History 7	000			+-++	
History il	000				-4-4-
History 9	000		·		
History 00	000		1000		
Pestory 11	000			Tata	- interior
History 12	000				
History III	1000			+-++	
History 14	000				annelispa
History 15.	000			Anta-	and a state of the second

[2] The print setup screen appears.

To change the margins and orientation, change the settings and then click [Print], and the alarm history will be printed accordingly.

Print	
Margins Top(mm) 3 Left(mm) 5 Row(mm) 2	Orientation Orientrait C Landscape
Print	Cancel

[3] When the printing is complete, the printing complete screen appears. Click [OK].





10. Displaying the Version Information

To display the version information, click [Maintenance] on the menu screen.

🦸 Main M	EffU Click each choose below flat corresponds to what pool start to do, and proceed to the specialize senses. Descendence and what we consider the sense of the sense of the Clinese'
	First, try simple operations!
1	Create a program Create a new program Create a new program anty the "R-7 grant" Create a new program uning the "R-7 grant"
10	Check program operations: (Notice with the poster of a center, singler above order)
	Check program operations

Click the [Version Information] tab. The versions of your MEC PC software, controller, etc., are displayed.

Care History	Parameter	Verses Information	Bockage
		\sim	
	PE	C PC Softw.	
	Validati	VIALAL/00	
	MEC PI	Software(Brary)	
	Version	V1.8L.00.00	
	07055500		
	E H	EC controller	
	Version(Appleation)	AC310835h	
	Hersen(Cont)	ACBACEGIN	
	Serve No.	800859625	
	PCS Type	890A8903h	
	MEC Ope	ration Panel (board)	
	Version(Application)	A5000002h	
	Version(Core)	455000001	
		Arbushy	
	Serial No.	+	

The contents of display for ERC3 differ from those of PMEC and AMEC.

- Axis number is displayed on the controller.
- There is no display of the version on MEC Panel Board.
- The version of PIO converter is displayed.

HECTO	Sorevene(instany)	
Version	V1.03.00.00	
ME	EC controller	
Version(Application)	AE700001h	
Version(Core)	AC840001h	
Serial No.		
PCB Type	000A0003b	
Axis No.	0	
ERC3	PIO Converter	
Version	A4101234	
	Actuator	
Serial No.		



11. Backup

To backup the programs and parameters, click [Maintenance] on the menu screen.

Erist, try simple operations! (Were equipment to be upper a disk operations) First, try simple operations! Erist a direct and program Create a new program	Main Menu	Click +sch Chock below But compared to else you sourt to de, and proceed to Ber
First, try simple operations! Create a program program Create a same program	• Fire	to any second se
Create a Direct and program Create a new program	-	First, try simple operations!
Check program operations	- <u>Chi</u>	All A Direct All restrictions and a program instate a new program instate a new program weight to "V-1 grands" Check program operations Check program operations
Check program operations		Check program operations

Click the [Backup] tab. The backup operation screen appears.

o tel inclusion				
Alarmithtory	Parameter	Version Deliamation	Babap	
w NOC controller a here several to the Pi tern several to the M	iolen heo types af its 5, all dolo is senait h 15, più cao select ar	dis ¹ <mark>Economia ¹ ovel ¹ Emiliano</mark> apellica el Sance anda perspecta dalla ca	<u>-</u> 5	1
Save from 1	the MEC to PC	· Save from t	te PC to HEC	
6			- III Male In Hun HIEC - IIII	
		fiered.		1000



- (1) Saving the programs and parameters to the PC
 - To save the programs and parameters to the PC, select [Save programs/parameters to the PC], and then click [Save].

Decision and a second				61-1
Alamatikovy	Parameter	Version Education	Balle	
The MEC controller 4 When caved to the P When cased to the M	tores two types of de C, all details seed 5 RC, you can select a	das " <u>Chromosons</u> " and " Carana quitter: ef sales on dy program data or	dan .* parameter data	
Save from	the MEC to PC	Save from t	he PC to MEC	
		Rees program a	ista to the MIC.	
Save programs/	parameters to the P	e -		
		Save permitte	date to the MDC.	
100		12	=	
	R	Tree pa	and and	
	U			
		Statement .		Transmitt.

The "Save As" screen appears.

Enter a desired file name and click [Save (S)], and the programs you have created will be saved to the PC.

ieve As						2
Save ini	C RiPc		👻 🛞 - 🗖	NO X D	🛄 + To	saja +
Hy Recent Cocurrents	🖻 Axsis03.ptp	c				
Desktop						
My Documents						
Ny Conputer	Fienanti CA	xisis03	>			Save (S)
My Network Places	Save as type:	MEC files (*bkpm	1)		*	

Once the program has been saved, click [Return to the "Main Menu."]. The screen returns to the main menu screen.



- (2) Saving the programs from the PC to the controller
 - To save the programs from the PC to the controller, select [Save program data to the MEC], and then click [Save].

an maran				<u>E</u> .
Alemented	Parameter	Version Information	Biskop	
e MEC controller e han sayed to the Pr han sayed to the M	tonis two types of da C, all data is saved to BC, and carrelet at	ta: " Boar an s " and "Datate polition. d www.onle.program.data.or	ulas ." pacento data	
Save from	the MEC to PC	Save from t	he PC to MEC	
		Save program	tets to the MDC.	
[
		-		0.000

Click [Yes] to save the programs to the MEC controller.

(Note) If [No] is clicked, the programs will not be saved to the MEC controller.

	www.week.lo	and a second	1000 C	
Alaris History	Parameter	Version Information	leanage	
he MEC controller is New saved to the P New naved to the M	tures two lignes of data C, all data is saved legar BC, you can solidit and s	"Chanters, " and "Catal Feet, and only program data or	den .* perameter data.	
Save from	the MEC to PC	Save from t	he PC to MEC	
		Seve program.	fate to the MDG	
	Ter benche	and it is a state of the latter of the		
save programa	A Distantion	an entry beginning the denis group of	satisff we we want to see the	
-	hannes to car	tarbits to and		
128	8	Yes No		
		(5)		
100		0.3		
200.0	shine he doe PT			
2004	distant's			
1ma	and the second	Breege	- L	
111	and the set	Street as	ANE .	
1		Tanka and	9	



The following message appears while the data is being transferred.

Alaria History	Poraneter	Version Information	Backup	
e MED castroller at on saved to the M am saved to the M	cores two types of di c, all data is saved t FC, you can select a	eles. " <u>Etoconom</u> s — and "Walata operition. ed solen anty program data or	ators # parameter data.	
Save from t	the MEC to PC	Save from t	he PC to MEC	
	A CONTRACTOR	Save program o	lata to the MEC.	
	Invation			
Seve programs/s	paramet To	enderring data to the MEC con use welt for a while.	todiw	
(and	S	103 Martines		
1	-20	Save parameter	data to the MDC.	
1	on the se	<u> </u>	-8	
		Serve por	newnen Mec	
		THE OWNER OF THE OWNER OF		
		Savo		



- (3) Saving the parameters from the PC to the controller
 - To save the parameters from the PC to the controller, select [Save parameter data to the MEC], and then click [Save].



Click [Yes] to save the parameters to the MEC controller.

(Note) If [No] is clicked, the programs will not be saved to the MEC controller

Porometer	Warston Drivermation	KERSORD -	
in two types of d ill data is several b you can select at	dal ^a <mark>Drocenta</mark> ^a sed ^a Docora aptiler: el sove only program data or	ders .* perameter data.	
MIC to BC	Stars from H	Do PC In MEC	
C PIEL OF PL	a dere trent t	He read these	
	Save program (lata to the MEC.	
No.	0		
v. Inspans	institute i facilitati fa fa Mill catalha		
State of Party of Control of Cont	ten får blev frammend för kom profe och	and the particular of the second second	
Download to	Carl Residence (R) doll	partit.	
-	Yes No	LINE OF LIN PRO-	
	151		
ALL DIA POL	_331		
-		- 9	
	Elsee pi	NIC .	
	n two types of id el data is seed by yes can extend a provide the PC of the PC	n two types of data." <u>Excesses</u> "and "Datase if data is surveil organized. In MEC to PC Save from b Reve program is an excession of the surveil or the surveil of the Save program is Save surveil or the surveil of the surveil of the Breve program is and the surveil of the surveil of the surveil of the surveil of the surveil of the surveil Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the Save surveil of the surveil of the surveil of the surveil of the Save surveil of the /b>	n two light of this "Example " and "Example " a def " a def "Example " a def "Example " a def"" a de



The following message appears while the data is being transferred.

111-000				10
Manstekkerg	Porwaster	Window Information	Bachigo	
for NEC controllor of then saved to the IN then saved to the M	constant types of de 5 all doto is somethin DC, you can writer a	Ave " <u>Chromotons</u> , " cond." <mark>Documents</mark> reachter, ed saves andy programs data- ar ;	dana .* persenter data	
Gave from t	the MEC to PC	Save from th	Ne PC to MEC	
		Save program o	late to the MEC.	
	Advantation (
2354 (subgrassis)	All and The	enforcing data to the MBC con out not for a ninks.	baller	
	S	Since permeter	date to the MEC	
1	- 48			
Cincia C	and the Person of the Person o		-1	
		Contraction of the second	MEC	
	1	5ave		
		CONTRACTOR OF THE OWNER.		Part and



12. Set Clock

(Note) Clock setting is available only for ERC3 PIO Converter. (Version V2.00.00.00)

To set the clock information, click [Maintenance] in Menu Window.

Vhat You Can I	Do with the MEC PC Software (Main Menu)
	booth of an and the fact that the second of the second
	First to simple operations!
1.1	Prist, by simple operations:
• \$13	NO A DECORAD PRODUCTION ADDRESS OF PRODUCT
	Teate a new program they the "V-T graph" Create a new program writing the "V-T graph" Create a new program.
• Ch	eck program operations: (Warth Uniting and an event, a proper allowy could)
1	Check program operations

Click on [Set Clock] tab. The window for clock setting appears.

- 1) Date Setting: Click on the date and the calendar appears. The date can directly be input with the numeral keys in the calendar display window. It is also available to click on a date on the calendar to select.
- 2) Time Setting: Click on either hour, minute or second to shade it in blue. Shaded number can directly be set with numeral keys.

Also, it is available to increase and decrease the numbers with \blacktriangle and \blacktriangledown keys.

 Click [Set] and the changes to the date and time are set to the controller. (Note) Click [Sync with PC] and the date and time information of the PC is set to the controller.

Alarm History	Parameter V	ersion Information	Backup	Set Clock	
Set the da	ate and time of t	he controller.			
Date :	Wednesday	, August	31, 20	11	
Time :	8:56:51 P	M 🕻			
		s	iync with PC	Set	



13. Maintenance Information

To set up the maintenance information, click on Maintenance in Menu Window.

🥏 Main M	Click each shown below that corresponds to what you want to do, and proceed to the applicable screen. (You can click each underined work in blact to open the 'Gressay' screen where you can check the meaning at the work) First, try simple operations! (Wart to experime the basic constructs of the subware)
	First, try simple operations!
3	Create a program (Wark to create a new program)
	Create a new program using the "V-7 graph" Create a new program using the "V-7 graph"
6	Check program operations (Wart to check the operation of, or correct, a program skeady created)
	Check program operations

Click "Maintenance Information" tab. Clock setting window appears.

MEC PC Software						0	×	
Alarm History	Parameter	Version Information	Backup	Set Clock	Maintenance Information	l		
Displaying	g the data	for maintenance.			_			Switch over
		Unit	s of tota	al moving o	listance			between
Current	tata		kmj 🦉	.m]				km and m
Current s	lale		12210					
lotal movin	g count		43210	<==7	Set	₹		lladata data af
Total movin	g distance[r	m]	98765	<===	Set			- Update data of
e								information
Signal ou	itput tim	ing setting						mormation
Total movin	g count thre	eshold	56789					
Total movin	g distance t	hreshold[m]	123456	(Measure of	grease supply)			
						Main M	enu	

This window shows the total moving count and total moving distance of the actuator.

- Total moving count
- Total moving distance

Displays the calculative total of moving count of the actuator. Displays the calculative total of moving distance of the actuator. The total

moving distance can be switched over between km and m.



- (1) Change in Total Moving Count and Total Moving Distance Input a value in the maintenance update data for the total moving count and total moving distance and then click update, and a change will be made to the total moving count and total moving distance.
- (2) Threshold of Total Moving Count and Total Moving Distance Count Set the threshold for the total moving count and total moving distance count, and an alarm of message level can be generated when the count exceeds the target. The set threshold gets stored in the following parameter.

Parameter No.	Name
26	Total movement count threshold
27	Total operated distance threshold

Message Level Alarm

Alarm Code	Name	Content
4E	Movement count threshold violation	It is issued when the total moving count exceeds the threshold set in Parameter No. 26.
4F	Operated distance threshold violation	It is issued when the total moving distance exceeds the threshold set in Parameter No. 27.

[Example of use for Total Operated Distance Times]

For an instance, it is recommended to have a grease supply on the ball screw in the regular inspections when the drive distance exceeds 5000km within 3 years after starting operation for RCP2 Short Type Actuator.

In this case, set '5000' in Parameter No.27 at the start of the first run, and an alarm notifies that grease supply is required when the drive distance exceeds 5000km.



14. Term Search Function

Clicking a desired text with a blue underline on each screen opens the "Glossary" screen. You can also access the "Glossary" screen by clicking [Glossary] on the main menu screen.

[Glossary]

Move the mouse cursor to an appropriate group in the term selection area and click the term you want to check. An explanation of the selected term is displayed.

0	Select and	cick the te	rm you wan	t to look up	1		
1	2-3	A~C	D-H	I-L	MoP	0~T	
				-			
Search	esuits Pos	itioning open	ation				
WAREN I	ALC: NOT ALC: FIT	IDIDA L IO	eration	N			
Terters Sell, 49,	g operation" is an In the boost point in the second second	ant cast's to 1 to (Acading per	• Justice and y 10 1	n Alfondanis offici Red sammed, accord	eren her same	e't bid generating by Ridde and they produce	11 12
Tester nil, 24, het, 41,	Ordersteiner im eine Derstellener im eine Derstelleneren eine Nerstelleneren	and start to the f in planting pro- mine the problem in the top of particles by the top of particles is a second why it is	e optionalis is nari attación dest las productos posteres	r synniana afra Ng synaf, ara	and the subset matter and them Sengel product	el loid generating to come and the could	ti (
Trades MIL 44.	Professional in a constraint of the second s	ent start to the f in this proton which proton which has the start in the proton in the start to the start has the start in the start proton in the start proton in the start proton	 - confirmanti y 10 - confirmanti y 10 free operations of and closure free of positions. - of positions of Transf 	n ta possibile a dife Nel servet, es ce	Angel profile	et bid geneergen daar eid fer roder See	5K

15. Displaying the Table of Contents (Overall Flow)

To display the Table of Contents (Overall Flow), click [Table of Contents (Overall Flow)] in the Main Menu.

in t

🖉 Main Me	TL3 Glink each gastered lieber that servery mode to what you went to do, and proceed to the apple like interest. (The zero real real water extended on the servery mode to the servery) access on the server extended to reason of the real of the servery)
	First, try simple operations! " " " "
	First, try simple operations!
5	Create a program (North Anna anno regard)
	Control of the program of the progra
	Check program operations must make a second of a second second must
	Check program operations
	Contraction of the second seco

The table of contents (overall flow) appears.

E Mitritizaiene	
Convert portions Convert port	"Title" screen
The by depth specific Mark by	tanan a yanan tanan tan
	-



16. Displaying the Function Details of the MEC Controller Operation Panel

To display the details of the MEC controller operation panel functions, click [Function Details of Oeration Panel] in the Main Menu.

(Note) For ERC3, there is no operation panel function detail display.

🧳 Main Menu	Click each in the set with the set of the se
• Eic	Eirst try ciencle operations!
	Prist, by simple operations.
•50	ALC A DECARATE PROPERTY CARDES AND PORTING
	Consta a new program they the "V-T graph" Using the "table" Using 6" consta a row program.
• Chu	eck program operations: (Not is mainten up also if a centre, a program allow) order)
0	Check program operations

The function details of the MEC controller operation panel are displayed over three pages. Click [Next] to display the next page.

MEC Controller	Function Details of Operation Panel	
asic Buttons on the C	peration Panel	
 Contract to the files dotted to Location to the set of the dotted to Location to the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the Location the set of the set of the set of the set of the Location the set of the set of the set of the set of the Location the set of the Location the set of the Location the set of the set o	ten hardar is the specificit power, which is to consider pergrams is providing the fund operation programs tobaction for run perform bild specificat	
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17. Appendix

How to Initialize the Parameters (to Their Factory Defaults) The parameters can be reset to their factory defaults according to the procedure specified below. (Version 1.00.05.00 or later)

Caution:

This should be the last resort when an alarm cannot be reset by resetting the software or turning on/off the power. Take note that initializing the parameters (to their factory defaults) restores the factory set parameters by discarding all changes you have made to the parameters.

Click [Maintenance] on the menu screen.

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Einst, try simple operations: First, try simple operations: Erst, try simple operations:	Main Menu	Click stath i that applicable tersen.	In being that carry sponds to (The conclusion and an inter-	to which you work to do, and proceed to least some it bloc to come the "Cleanery	o me
First, try simple operations!	• First	ity simple oper	ations! Image and	in the block operations of the softward	
Create a program (Network conception) Create a new program		First, t	ry simple oper	ations!	
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		Check	k program oper	rations	
		Check	k program oper	rations	

[1] The maintenance screen appears. Click the [Parameter] tab. The parameter screen appears.

Jame Helsony	Parameter	Version Information	ladog
of parameters in the these parameters of change these outsides or acts		The set before the MEC control the adjusted to operate the op ty because depending on the re- posite back and seller dening	ler can be etholier, w pontent s
	Namo	. 40	har .
taxition hand	(march)	1.3	
for future on	awww.		1010
Survo quin vais	iction .	110	
Tarque filter o	Tarque filter constant		
lipsed toop proportional gain			
Spredhap integral pairs			08214
Pebseetn	help queed (any see]		10.09
Pash recognite	sals recognition targe [sizes.]		325
Patrophila	Perform fails current (2004ap, 125ab)		
Automatic server off delay time [ses]		a	L
(For Eduro espansion)			1.0
(por biliare expansion)			38
Default house convert fruit [%s]			1008
(For foliare expansion)			101
fort front poved			8.08
Home of Set [mm]			8.26
Home direction (3 Opposite: 1 (below))		1.00	- B-
S (Per future est	For blare expansion		
Per luturo os	winsing)		14
Par & Auto Conversion (1.00

[2] Right-click in an empty area as shown below while holding down the Ctrl key.



[3] The "Input password" appears. Enter the password 5119.

Input password	×
Password(4 characters)	
OK Cancel	

[4] The [Initializing] button appears. Click the [Initializing] button.

Alaerri dad	lary isvanotor	Version Information	tiacku
st of para take three not share carterable	partners is dealered that an a parameters only if they may a these parameters condex or actuator may receive a	At he set before the MEC control at he adjusted to operate the a dy because depending on the a scenario loads, and suffer damag	der contie ortroller, ise parame p.
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1 1550	on-band [rem]		6.50
2 Bart	uturo aquaneian)		10092
3 Servo	Servicigatin selection		.9
4 Torup	Torque filier constant		
D. Speed	Speed loop propertional gain.		640
6 Speed	Speed loop integral gain		901
7 Pueto	peod[mm/sec]		20.00
8 Inshr	It is the recognition time (insect)		288
9 Pushi	Pushing fails current [0:5kg/1:Push]		.0
10 Autor	Automatic serve off delay time [sec]		1
11 (For h	(For luture exponsion)		2.46
12 (Par h	(For future expansion)		393
13 Dofine	Default home current laws (%)		100
14 Bark	(For future expansion)		
15 Self 8	Soft level		30.80
He Horse	Home altholymm)		3.20
17. Horse	Horse direction [D:Opposite/1:Default]		1
18 (For B	(For future expension)		.0
19 (Far h	(preiertezo orugu		2.0
20 Obre h	(for his recommend)		77



[5] The confirmation screen for parameter initialization (to factory defaults) appears. Clicking [Yes] initializes the parameters.

Confirm	ation 🛛
?	The applicable information is transferred to the MEC controller. Once all information has been transferred, the motor power will turn OFF automatically to restart the controller. (The power will turn ON automatically after the restart of the controller.)
	Yes No
	0

The following message appears while the initialization is in progress.

Infomation	
Initializing parameters Please wait for a while.	

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Change History

Revision Data	Description of Revision
March 2010	First edition
March 2010	Second edition P9 to 38 Added methods to start the installer when "ZIP file was downloaded" and "Self-extracting file was downloaded."
May 2010	 Third edition Added an operation flow for each menu in 3.1, 3.2 and 3.3. Changed operations in 8, "Editing Parameters." Added 9.1, "Alarm Display upon Generation of Alarm." Added 9.2.2, "Saving the Alarm History." Added 9.2.3, "Printing the Alarm History." Added 10, "Displaying the Version Information." Added 11, "Backup." Added 13, "Displaying the Table of Contents (Overall Flow)." Added 14, "Displaying the Function Details of the MEC Controller Operation Panel." 15, "Appendix"
July 2010	Fourth edition Added 1.2.3, "How to Install the Software/Uninstall the USB Driver on a PC Running Windows Vista." Added 1.2.4, "How to Install the Software/Uninstall the USB Driver on a PC Running Windows 7."
August 2011	Fifth edition Change in software license agreement.
September 2011	Sixth edition ERC3 added to supported model Pg. 108, 111, 203, 206, 213 and 216 The contents of ERC3 are added.
October 2014	Seventh edition Change made to procedure of installing USB Driver for Windows Vista and Windows 7. Added 13, "Maintenance Information."



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