Machine Controller MP900/MP2000 Series プログラミング装置用 ソフトウェア PROGRAMMING PANEL SOFTWARE MPE720 MPE720 取扱説明書 INSTRUCTIONS

この取扱説明書は、最終的に本製品をお使いになる方のお手元に確実に届けられるよう、お取り 計らい願います。

Upon receipt of the product and prior to installing the product, read these instructions thoroughly and retain them for future reference.



株式会社 安川電機

資料番号 (MANUAL NO.) TOBP C880700 00B

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INTRODUCTION

Manual Contents

This manual consists of Japanese Version and English Version.

- · Japanese Version: Described on pages J-1 to J-39.
- · English Version: Described on pages E-1 to E-52.

Use the Japanese Version or English Version as needed.

User Instructions

Use these instructions for the following jobs:

- Checking MP900/MP2000-series Machine Controller on delivery
- · Installing and wiring MP900/MP2000-series Machine Controller
- · Operating MP900/MP2000-series Machine Controller
- · Inspecting and maintenance of MP900/MP2000-series Machine Controller

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INSTRUCTIONS

MP900/MP2000-series Machine Controller Programming Panel Software

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About This Manual

This manual describes the MPE720 Programming Panel software (hereinafter called MPE720) for the MP900/MP2000-series Machine Controller.

Read this manual carefully to ensure the proper use of the MP900/MP2000-series Machine Controller. Also, keep this manual in a safe place for reference.

Visual Aid

The following aid is used to indicate certain type of information for easier reference.

IMPORTANT



Indicates important information that should be memorized.

Indicates supplemental information.

Related Manuals

Refer to the following related manuals as required.

Thoroughly check the specifications, restrictions, and other conditions of the product before attempting to use it.

Manual Name	Manual Number	Contents
MP900/MP2000 Series Machine Controller MPE720 Programming Device Software User's Manual	SIEPC88070005	Describes the installation and operation of the Programming System for the MP900/MP2000 Series.
Control Pack CP-9200SH Electronic Cam Data Preparation Tool Operation Manual *	SIE-C877-17.6	Describes the procedures for operating CP-9200SH Electronic Cam Data Preparation Tool.

* This manual is not included. When using Electronic Cam Data Preparation Tool, contact your Yaskawa representative.

Software

Precautions on Use

- This software must be used only with one specified computer. For use on other computers, contact your Yaskawa representative.
- Copying this software for any reason other than for backup is strictly prohibited.
- · Be sure to keep the original software stored for safekeeping.
- · Inversely compiling or assembling this software is strictly prohibited.
- Any transferal, exchange, or rental and/or third party use of all or part of this software without prior notice is strictly prohibited.

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- Windows, Windows 95/98/2000/NT4.0/XP, and Internet Explorer are trademarks of Microsoft corporation, U. S. A.
- Pentium is a trademark of Intel Corporation.
- Ethernet is a registered trademark of Xerox Corporation.

Safety Precautions

Read this manual thoroughly before checking products on installation, operation, maintenance and inspection.

General Precautions

Always note the following to ensure safe use.

- MPE720 was not designed or manufactured for use in devices or systems directly related to human life. Users who intend to use the product described in this manual for special purposes such as devices or systems relating to transportation, medical space aviation, atomic power control, or underwater use must contact Yaskawa Electric Corporation beforehand.
- MPE720 has been manufactured under strict quality control guidelines. However, if this product is to be installed in any location in which a failure of

MPE720 involves a life and death situation or in a facility where failure may cause a serious accident, safely devices MUST be installed to minimize the likelihood of any accident.

- Drawings in this manual show typical product examples that may differ somewhat from the product delivered.
- This manual may change without prior notice due to product improvements and specification changes or for easier use. We will update the manual number of the manual and issue revisions when changes are made. The revision number of the revised manual appears on the back of the manual.
- Contact your nearest Yaskawa sales representative or the dealer from whom you
 purchased the product and quote the manual number on the front page of the
 manual if you need to replace a manual that was lost or destroyed.
- Contact your nearest Yaskawa sales representative or the dealer from whom you purchased the product to order new nameplates whenever a nameplate becomes worn or damaged.
- Products modified by the customer are not covered by the Yaskawa warranty, nor does Yaskawa assume any liability for injury or damage that may result from such modifications.

1 MPE720

This section describes the overview of the MPE720 and specifications of the personal computer where the MPE720 is to be installed.

1.1 What is MPE720

"MPE720" is the programming software to control and monitor the MP900/MP2000-series Machine Controller.

MPE720 operates on Windows 95/98/2000/NT4.0/XP; the Unit where the MPE720 is installed in a personal computer (hereinafter called PC) is called "Programming Panel."

MPE720 Programming Panel and the MP900/MP2000-series Machine Controllers are normally connected by RS-232C Interface. For some MP900/MP2000 models, ETHERNET (218IF) or real time core network (215F) can also be used. For details, refer to the User's Manual "Design and Maintenance" of each model.



1.2 Recommended Personal Computer for MPE720

The programming panel is required to have multifunctions such as high-speed data transmission with Machine Controller, control, or monitoring.

The following indicates the PC specifications for easy MPE720 operations. Check PC specifications before installing the MPE720.



- *1: Any Intel Corporation equivalent product may be used.
- *2: To operate other applications simultaneously, add more memory. Otherwise, memory source is often fetched causing reductions in performance.
- *3: Standard operating space after installation is also included.
- *4: The service pack 5 or later is required for Windows NT, and the service pack 1 or later for Windows 2000.

The following table shows an example of the applicable OS with MPE720.

MPE720 version	Applicable OS type
Version 4.30A (First edition) or later	Windows 95/98/2000/NT4.0
Version 4.50 or later	Windows 95/98/2000/NT4.0/XP

IMPORTANT

If the software version is 4.20 or later for 717IF and 4.30 or later for MPE720, both programs can be installed together on one PC. If earlier versions are used, the software will not successfully be installed.

2 INSTALLATION PROCEDURE

The following describes how to install the MPE720 system software.

2.1 Starting Installer

Using a CD-ROM

Follow the procedure described below to start up the Installer.

1. Insert the CD-ROM into the CD drive. The following window appears.



2. Click the [Install] button. The following window appears.



3. Click the [MPE720] button to start up the Installer.



Double-clicking "Launch.exe" in the CD-ROM drive on Explorer can also start up Installer.

Unless Microsoft Internet Explorer 5.5 or more is installed on the PC, the following error message appears when Installer starts up.

Error	x
⚠	Microsoft Internet Explorer Ver.5.50.0000.0000 or higher is required. Please update your Internet Explorer and run setup again.
	OK

Click the [OK] button and install Microsoft Internet Explorer 5.5 or more, then install MPE720 again.

■ Microsoft Internet Explorer 5.5 can be installed from this software.

2.2 Preparing Setup

The window for setup preparation appears as shown below. While this window is given, installation is being prepared.



1. When installation preparation has been completed, the following window appears.



2. Click the [Next (N)] button after verifying the message. The following window appears.

MPE720 Engineering Tool			x
Start Copying Files Review settings before copying files.			
MPE720 Engineering Tool requires the followir Tool setup will continue the setup after intall th intstall.			
Current Settings:			
Installed component(s) VB6 Runtime Service Pack5			<u>_</u>
			=1
4			Þ
InstallShield			
	< <u>B</u> ack	Next >	Cancel

3. Click the [Next (N)] button. File copy starts and the following windows appear in order.

MPE720 Engin	eering Tool				x
Setup Statu	15				
MPE720 Er	ngineering Tool Setup is per	rforming the	requested opera	itions.	
Installing:					
C:\\Envir	onment Setup Program\msv	vbvm60.dll			
		44%			
		_			
InstallShield —					
					Cancel
MP	E720 Please se	elect the produ	ict that you need l	o install	
	Welcome to MPE720				
	The MPE720 Setup guides you		Simple	20	
	through the install process. The Shield Wizard is being loaded.		MPE720	à	
	Simple MPE720 Engineering Wo				
	Conversion Of access		-		- 1 - F

InstallShield Wizard

MPE720 Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.

Cancel

Time required until next window appears.

2.3 Starting Setup

The following window appears when preparation for setup has been completed, and installation can be started.



1. Click the [Next (N)] button after verifying the message. The following window appears.

MPE720 Setup	x
License Agreement Please read the following license agreement carefully.	
Press the PAGE DOWN key to see the rest of the agreement.	
Name of the software: YASKAWA Engineering Tool MPE720	<u> </u>
Software License Agreement	
Yaskawa Electric Corporation (hereinafter referred to as "YEC") sha non-transferable and non-exclusive right to use this software provided to the customers (hereinafter referred to as "Recipient") who bough under the condition that Recipient consents the following terms and c	with this Agreement It this software,
Do you accept all the terms of the preceding License Agreement? If y setup will close. To install YASKAWA MPE720 Engineering Tool, you agreement.	
	'es <u>N</u> o

2. Click the [Yes] button after verifying the message. Then setup starts and the "Customer Information" window appears.



The following is common in the operations described hereinafter.

- Clicking the [Next (N)] button executes processing to move to the next window.
- Clicking the [Back (B)] button returns to the previous display.
- Clicking the [Cancel] button terminates the processing.

2.4 Entering Customer Information

 In the "Customer Information" window, enter the customer name, company name, and serial number as the customer information.

MPE720 Setup			×
Customer Information			
Please enter your information.			
Please enter your name, the name of the comp serial number.	any for whom yo	ou work and the p	roduct
<u>U</u> ser Name:			
Name			
<u>C</u> ompany Name:			
YASKAWA			
<u>S</u> erial Number:			

InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

2. After inputting the data, click the [Next (N)] button. The "Choose Destination Location" window appears.

2.5 Selecting Installation Destination

- 1. Select the installation destination directory.
 - "C:\YeTools" is the MPE720 default directory.

Clicking the [Browse...] button can change the installation destination directory, however, it is recommended that "C:\U00e4YeTools" be used.

720 Setup			
noose Destination Location Select folder where Setup will install files.			
Setup will install YASKAWA MPE720 Engin	eering Tool in the	following folde	er.
To install to this folder, click Next. To install another folder.	to a different folde	er, click Brows	e and select
Destination Folder			
Destination Folder C:YYeTools			Browse
			Browse

2. After selecting the installation destination directory, click the [Next (N)] button. The "Select Options" window appears.

2.6 Selecting Option Item

1. In this window, select the option items to execute the installation.

It is recommended to check both boxes, "Ladder Works" and "Electronic Cam Tool" to execute the installation of the New Ladder Editor and the Cam Tool as MPE720 standard options.

MPE720 Setup	x
Select Options Select the options you want to install.	
To install a component, click the check box next to it. If the check box is clear, component will not be installed.	that
☑ Ladder Works	
🔽 Electronic Cam Tool	
InstallShield	Cancel

2. After selecting the option items, click the [Next (N)] button. The "Select Program Folder" window appears.



- · New Ladder Editor: Ladder Editor for Windows with the MPE720 installed
- · Cam Tool: Electronic cam data preparation tool

2.7 Selecting Program Folder

1. In this window, specify and register the program folder to register the application group. Default is "YE Applications."

Any existing folder other than the default can be selected, however, it is recommended that "YE_Applications" be used.

MPE720 Setup	x
Select Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.	
Program Folders:	
YE_Applications	
Existing Folders:	
Accessories Administrative Tools Startup YASKAWA CamTool	
YE_Applications	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

2. When selecting the program folder, click the [Next (N)] button. The "Start Copying Files" window appears.

2.8 Starting and Completing File Copy

- 1. Verify the setting information.
 - a) In this window, the information that has been input is displayed. To correct something, click the [Back (B)] button to return to the previous window and correct the relevant part.

MPE720 Setup			x
Start Copying Files Review settings before copying files.			
Setup has enough information to start copying change any settings, click Back. If you are sa copying files.			
Current Settings:			
User information Name :Name Company -YASKAWA Serial No : Target Directly C:\YeTools			<u>_</u>
<u>र</u>			<u> </u>
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

b) After setting is completed, click the [Next (N)] button to start copying a file.

MPE720 Setup	×
Setup Status	
YASKAWA MPE720 Engineering Tool Setup is performing the requested operations.	
Installing:	
C:\YeTools\MPE720\Cp717Sys\Bin\NLDAppAbout.exe	
20%	
InstallShield	
	Cancel

2. File copy starts. The following windows appear in order.

The copy progress status can be checked in the progress bar dialog box.

Wait until copy is completed.

A Maria Secup		<u>د لاھ</u>
MPE720 for Windows 95/98/NT/2		
Windows 95/98/NT/2	2000	
MPE720 5		×
Setup :	Status	
YASK	Disk 1000 Piol Camerania Yauf Cale a la andonisa dia sua astro ana disa. InstallShield Wizard	
Install		
	Cancel	
InstatCivel		
		Cancel

Windows 95/9	720 284/7/2000	د الم
Wildows 55t	01112000	
	MPE720 Setup	
	Setup Status	
	VASYAWA MPE720 Engineering Tool Setup is performing the requested operations.	
	Instaling CriveToolkoveT	
	Installineti	
	Cancel	



🛃 Emšrope Setup		
CimSco for Windows 95/98	ne	_
for	PC .	
Windows 95/98	/NT/2000	
	CimScope Setup	
	Setup Status	
	YASKAWA CinScope Setup is performing the requested operations.	
	Instaling:	
	C:\YeTosh\YePatt\Cp7175yt\Wervda\WSC30.2JP	
	32%	
	hourses -	
	Cancel	







The following messages may appear when installing the option items.

Warning X VASHAWA Electronic CanTool (Ver 4.15) is detected on your computer. Installer delikes the programs once, them notalis VARAWA Electronic CanTool (Ver 4.16). On to continue? Control Cancel	These messages appear when the optional software with the older version is not uninstalled successfully. Verify the message and click the [OK] button to continue the installation that means
Warning X 1YASXWA NET20 Explorence Tool (Ver. 4.30) is detected on your computer. Tool (Ver. 4.30), Tool (Ver. 4.30A). Tordad Veddets the programs once, then include VidAwiA MET20 Expresents Tool (Ver. 4.30A). Tool (Ver. 4.30A). Dist to continue? Concel	updating the version. Clicking the [Cancel] button stops installing the optional software. However, it is recommended to update the optional software version when
C:\\Data901\Motion\DWGH\#7654321.TMP 12%	updating the MPE720 version.

2.9 Completing Setup

When setup is completed, the "MPE720 Setup" window appears.

There are two check boxes as follows. Mark the boxes of the items whenever necessary, and click the [Finish] button.

- Selecting "Yes, Open the ReadMe file right away." displays the ReadMe file which describes the "Software License Agreement." If not necessary, remove the check mark.
- Selecting "Yes, Execute the File Manager right away." starts up the application after completion of setup.

MPE720 Setup	
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed YASKAWA MPE720 Engineering Tool. Click Finish to exit the wizard.
	✓ Yes, Open the ReadMe file right away. ✓ Yes, Execute the File Manager right away.
	KBack Finish Cancel

2.10 Verifying Setup Contents

When setup is completed, the common program folder (default:YE_Applications, YASKAWA CamTool) which becomes a platform of the application groups is given on the desk top.



Perform the following steps to verify that the setup contents are installed correctly.

 Double-click the "YE_Applications" program folder. The program folder is opened and the contents are displayed as follows.

C:\Documents and Settings	s\All Users.WINNT\Desktop\YE_Ap	plications	_ 🗆 🗵
Eile Edit View Favorites	<u>T</u> ools <u>H</u> elp		
] ← Back → → ← 🖬 🔕 S	earch 🖓 Folders 🎯 History 🛛 🎥	5 X 10 I II-	
Address C:\Documents and :	Settings\All Users.WINNT\Desktop\YE_A	pplications	▼ 🖓 Go
	▲ Name ∠	Size Type	Modified
	🚊 Communication Manager	1 KB Shortcut	3/28/2002 4:50 PM
Records and Records	MPE720	2 KB Shortcut	3/28/2002 4:49 PM
YE_Applications			
	-		
2 object(s)		1.88 KB	My Computer

2. Double-click the "Total Engineering WorkStation" icon to verify that the application is started up correctly.



The application can also be started up by selecting this application from the program menu of the [Start] button at the left bottom on the desk top.

2.11 Folder to be Created at Installation

Installer creates a folder for each file component, and the relevant file is copied.

	File Component	Folder to be Created			
1	ReadMe (latest information) file, etc.	¥¥YeTools *1			
2	MPE720 program file	¥…¥YeTools¥MPE720 ¥Cp717sys			
3	MPE720 data file	¥…¥YeTools¥MPE720 ¥Cp717Usr			
4	Windows communications driver	¥¥WINDIR *2¥System			
5	Common DLL	¥¥WINDIR¥system			
6	MPE720 communications program file	¥¥YeTools¥CpComSys			

*1. ¥...¥YeTools

The basic folder of the MPE720 system. Most files are installed under this folder. The folder name can be changed, however, it is recommended that the standard folder name "YeTools" be used.

*2. ¥...¥WINDIR

Indicates the folder where the Windows system has been installed. "C:¥Windows" is used for the standard installation of Windows. Files depending on the Windows system are installed, such as communications driver module or common DLL, for the MPE720 data transmission with Machine Controller.



File component: files classified into groups in the units of functions

3 COMMUNICATIONS SETTING

This section describes communications setting between the MPE720 and Machine Controller.

3.1 Outline of Communications Setting

When installation is completed, be sure to make communications setting for the MPE720 once. For communications medium, select the right one of the following three types and set the communications conditions.

- · Serial interface
- 215IF high-speed communications interface
- 218IF ETHERNET interface

Once setting is made, it is stored as MPE720 system information. No new setting needs to be made from the next operation, unless the setting is changed.



3.2 Calling Communication Process

 Double-click the "Communication Manager" icon of the communication process in the "YE Applications" program folder. The "Communication Process" window appears.



Double-click this icon.

2. For communication process, logical ports up to 16 channels can be operated. Select and set an unused logical port from the top in order.

	inication Pri		ndow Help						
	P Pà		1						
Logical PT	PT Kind	DUAL	Physica	Device	TimeOut IRQ	Address Connec	Modify	Logging	Status
1 2									
3									
4									
5 6									
7									
8 9									
10									
11									
12 13									
14									
15 16									
10									
ady								CAF	

 Double-click the relevant logical port number, or select relevant logical port number to select "Setting(E)..." from "File(F)." The following window appears when logical port number 1 has been selected.

Communication Process -	_ 🗆 🗵
Ele Iool Control Modem Window Help	
Logical PT PT Kind DUAL Physica Device TimeOut IRQ Address Connec Modify Loggin	g Status
2	
3	
4	
5	
6	
8	

 Selecting the logical port calls up the following "Logical Port Setting" window. Select the relevant communications interface in "Port Kind" and go to the relevant setting process.

Logical Port Setting			×
Logical Port	1		
Port Kind	None	•	
TimeOut	None CP-215 Serial Modem	≜ ms	
Dual	C Off	COn	
OK	Detail	Cancel	

IMPORTANT

Do not set the logical port to any communications device (215IF or the like) which is not connected to the programming panel. Failure to observe this may make hardware operations unstable.

3.3 Setting of Serial Communications Port

Setting Procedure

The following describes the setting procedure of the serial communications port.

1. Select "Serial" as "Port Kind" in the "Logical Port Setting" window, and click the [Detail] button.

Logical Port Setting	2	<
Logical Port	1	
Port Kind	Serial 💌	
TimeOut	10000 ms	
Dual	C Off C On	
<u>ок</u> <u></u>	letail Cancel	

Clicking the [Detail] button calls up the "Serial Port Setting" window for the setting information; click the [OK] button after setting the serial port parameters. Normally, the following default values are entered.

Serial Port Setting			×
Physical Port	COM1	•	
Unit No	1	* (0-63)	
Baud Rate	19200	•	
Data Bits	8	•	
Parity	EVEN	•	
Stop Bits	1	•	
OK	Cancel	Default	

3. When the "Logical Port Setting" window appears again, click the [OK] button again. The "Communication Process" window appears again, so that you can verify that "Serial" has been assigned to logical port 1.

Communication Process -					_ 🗆 🗵
Ele Iool ⊆ontrol Modem Window Help					
B Z P P P P					
Logical PT PT Kind DUAL Physica	Device TimeOu	t IRQ Address	Connec Modify	Logging	Status
Serial COM1	1000)			Ready
2					
3					
4					
5					

Serial parameters have been set.

The setting contents are required to be saved in a file.

Saving Communications Port Set Values

Save the set values of the communications port in a file. After that, this data is supplied as the communications port information when the communication process starts up.

The following describes how to save the communications port set values.

1. Select "Save (S)" from "File (F)."



The "CpPrc" (Communication process) window appears to verify whether the information is to be saved. Click the [YES] button to save it.

CpPrc			×
٩	The Infor Are You R	mation will be Sa Ready ?	aved
	Yes	No	

Completion of Communication Process

Select "Exit (X)" from "File (F)" to close the "Communication Process" window.

stting	RQ N N								
	d DUAL	Physica	Device	TimeOut IR	Address	Connec	Modify	Logging	Status
		COM1		10000					
2									
3									
5									
ŝ									
2									
3									
0									
1									
1 2 3									
3									
4									

IMPORTANT

The communications port setting will be valid when the communication process is restarted after the set values are saved in a file.

3.4 Setting of 215IF Communications Port

Setting Procedure

The following describes the setting procedure of the 215IF communications port.

 Select "215IF (CP-215)" as "Port Kind" in the "Logical Port Setting" window, and click the [Detail] button.

Logical Port Setting		x
Logical Port	1	
Port Kind	CP-215	
TimeOut	10000	ms
Dual	Off	C On
OK	Detail	Cancel

 Clicking the [Detail] button calls up the "215IF (CP-215) Port Setting" window. Set the 215IF parameters; "Hardware," "Parameter," "Channel" and "LinkMap" in this order which are indicated with four tabs. For "LinkMap" tab, no new setting is required.



a) "Hardware" setting

Sets the operation conditions of the 215IF (CP-215) PC/AT card which is mounted on the PC.

- "Phisical No" (physical port)
 Sets the I/O port number. If there is only one 215IF (CP-215) PC/AT card, set "1." When more than one 215IF (CP-215) PC/AT card is used, assign 2, 3, 4 and so on in order.
- "IRQ" (interruption level) Select a hardware interruption number which is currently not in use.

• "Memory" (common memory)

Sets the communications buffer address. Normally, set a memory address that is not used in UMB.

CP-215 Port Setting	×
Hardware Parameter Channel Lin	(Map
CP-215 Type IS	A: Elec-Board
First Physical Port	
Physical No 1	•
IRQ 11	•
Memory	
Second Physical Port	

b) "Parameter" setting

Sets the 215IF transfer parameters. Set from the "Own Station Address" to the "MEMOBUS Response Watch Time." For parameters below the "MEMOBUS Response Watch Time," use the default values.

	CP-215 Port Setting			×
	Hardware Parameter Channel Linkt	Map		
0 2 3 9 5	 Own Station Address Own Network Address Max Connect Station Token Round Time Setting MEMOBUS Response Watch Time Station Search Cycle Transfer Speed Maintenance Switch1 Maintenance Switch2 Same Period Scan Relay Function 	5 ▲ 1 ▲ 64 100 ▲ 255 ↓ 10 ↓ 4Mbps ▼ 0 0 High ▼ Disable ▼	(1 - 64) (1 - 254) (16/32/48/64) (5 - 100) (0 - 255) (5 - 1000) (0 - 65535) (0 - 65535)	
	Relay Network No.1 Upper Relay Network No.1 Lower Relay Network No.2 Upper Relay Network No.2 Lower		(1 - 254) (1 - 254) (1 - 254) (1 - 254)	

① "Own Station Address"

Set the MPE720 station number.

⁽²⁾ "Own Network Address"

Set the network number where the MPE720 is connected. Set "1" when there is only one network segment.

3 "Max Connect Station"

Set the number of the 215IF network stations. The number of stations indicates the number of 215IF interface modules incorporated into the Machine Controller, and the number of PCs with 215IF (CP-215) PC/AT card interface.

④ "Token Round Time Setting"

Sets the aimed time from when each station receives a token to when it receives the token again. Set "100."

S "MEMOBUS Response Watch Time"

Sets the time until when a response is received at message sending. Set "255."

[∎Co	ommunicatio	n Process -										Ľ
Eile	<u>⊺</u> ool <u>⊂</u> ontro	I Modern Win	ndow <u>H</u> elp									
	P	Pà Mà Mà										
Logic	al PT PT Kin	d DUAL	Physica	Device	TimeOut	IRQ	Address	Connec	Modify	Logging	Status	
	CP-21	5	1		10000	11	D0000H					
	2											_
	3											_
1 :	5											_
	5											_
												_
l é												_
ļ												_
1	0											_
1												_
1												_
	3											_
1												_
1												_
1 '	0											_

c) "Channel" setting

Sets the number of panel command channels. Set "2" to the "Panel Command Channel." Other parameters are not used with the MPE720. Use the default values. After completion of setting, click the [OK] button.

1	0,		-
CP-215 Port Setting			×
Hardware Parameter Channel Link	(Map		
Panel Command Channel	2 1	(0.5)	
		(0.10)	
MEMOBUS Read Channel	2 *	(0.16)	
MEMOBUS Write Channel	2	(0.16)	
MEMOBUS Passive Channel		(0.16)	
OK Cancel	Default		
3. When the "Logical Port Setting" window appears again, click the [OK] button again. The "Communication Process" window appears again, so that you can verify that the "215IF" has been assigned to logical port 1.

🗐 Comm	inication Pro	ocess -									_0×
Eile Iool	⊆ontrol Mo	dem <u>W</u> in	dow <u>H</u> elp								
BZ	P Pà	MÌ MÌ									
Logical PT	PT Kind	DUAL	Physica	Device	TimeOut	IRQ	Address	Connec	Modify	Logging	Status
1	CP-215		1		10000	11	D0000H				
2											
3 4											
5											
6											
7											
8											
9											
10											
11											
12											
13 14											
15											
16											

The 215IF parameters have been set.

The setting contents are required to be saved in a file.

 Saving Communications Port Set Value and Completing of Communication Process

Refer to 3.3 Setting of Serial Communications Port.

3.5 Setting of 218IF Communications Port

The ETHERNET is used for communications via the 218IF module mounted on the Machine Controller.

Setting Procedure

The following describes the setting procedure of the 218IF communications port.

1. Select "218IF (CP-218)" as "Port Kind" in the "Logical Port Setting" window, and click the [Detail] button.

Logical Port Setting		x
Logical Port	1	
Port Kind	CP-218	_
TimeOut	10000	ms
Dual	🕫 Off	C On
ОК)etail	Cancel

 Click the [Detail] button calls up the "218IF (CP-218) Port Setting" window. Set only the "IP Address (First)." For other parameters, use the default values.

Set the IP address assigned to the ETHERNET board mounted on the PC that works as a programming panel or the PCMCIA card.

For the "IP Address," either one of private addresses, "192.168.1.1" to "192.168.1.254" of class C are set automatically. Determine the IP address following the instructions of the personnel in charge of network management. IP address including the Machine Controller must be managed.

P Addres(Second)		
in Addres(Second)		
Default	€ ON C	OFF
Engineering Port	10000	(256 - 65535)
Message Rece	ived	
TCP Port Count	10	(0- 16)
TCP Top Port	20000	(20000 - 65535)
UDP Port Count	t 10	(0.16)
UDP Top Port	20000	(20000 - 65535)

3. When the "Logical Port Setting" window appears again, click the [OK] button. The "Communication Process" window appears again, so that you can verify that the 218IF communications have been assigned to logical port 1.

🗐 Commu	inication Pro	ocess -									_ 🗆 ×
Eile Iool	⊆ontrol Mo	idem <u>W</u> in	dow <u>H</u> elp								
	P Pà	Mà Hà									
Logical PT	PT Kind	DUAL	Physica	Device	TimeOut	IRQ	Address	Connec	Modify	Logging	Status
1	CP-218		1		10000						
2											
4											
s											
6											
7											
8											
9											
10											
12											
13											
14											
15											
16											

The 218IF communications have been set.

The setting contents are required to be saved in a file.

Saving Communications Port Set Value and Completing Communication Process

Refer to 3.3 Setting of Serial Communications Port.

3.6 Adjustment of Logical Port Number with MPE720

Up to 16 logical ports can be registered by communication process. However, when the Machine Controller is engineered by the MPE720, you must specify which logical port is to be used.

Logical port to be used can be set for each Machine Controller. Normally, logical ports are set when registering a new Machine Controller to be used in the "File Manager."

Refer to MP900/MP2000 Series Machine Controller MPE720 Programming Device Software User's Manual (SIEPC88070005).

When a new PLC folder is registered, or when the "Property" window is opened for a registered PLC folder, the following window appears. Click the "Nnetwork" tab.

Controller Configuration		×	
Information Network Ap	plication		
OnLine Logical Port No (Device Type) Unit No Route	r Yes ∩ No 1:CP217 ▼ 1 ▼ C Yes © No		This number corresponds to the logical port No. in the "Communication Process" window.
OK	Cancel Default		

Set the logical port number to be used in the combo-box of "Logical Port No" in this window.

4 STARTING AND COMPLETING MPE720

This section describes the operation procedures to start and complete the MPE720 system.

4.1 Starting MPE720

The following describes the operation procedure to start up the MPE720.

1. Turn ON the power supply to start up Windows 95/98/2000/NT4.0/XP.



2. Double-click the program folder "YE_Applications" icon.

C:\Documents and Settings\All Users.WINNT\Desktop\YE_Applications							
Eile Edit View Favorites	Tools Help		÷.				
(← Back → → → 🔁 🔞 Search 🖓 Folders 🔇 History 🖺 🖓 🗙 🕫 📰							
Address 🗋 C:\Documents and Settings\All Users.WINNT\Desktop\YE_Applications							
12-1-1	▲ Name ∠	Size Type	Modified				
	🧾 🚊 Communication Manager	1 KB Shortcut	3/28/2002 4:50 PM				
Recommend British Second	MPE720	2 KB Shortcut	3/28/2002 4:49 PM				
YE_Applications							
	-						
Location: C:\YeTools\MPE720\Cp7175	5ys\Bin	1.47 KB 🖳 M	Ay Computer				

- 3. Double-click the "MPE720" icon of the "YE_Applications" group to start up the "File Manager."
- 4. The "File Manager" window that is the main window of the MPE720 appears.



File Manager

The "Communications Manager" is started up simultaneously with the "File Manager." It can be verified with the following task bars.

Start	🚊 Communication Process -
-------	---------------------------

IMPORTANT

 The mode is set to the "Simple operation" mode as default. To change it to "Standard mode," select "Change Program Mode" from "View (V)" in the File Manager, set the mode to "Standard", and start up the MPE720 again.

Set Mode			x
mode	Simple operati Simple operati Standard		
	ОК	Cancel	

- 2. Unlike the standard mode, the simple operation mode has the following restrictions:
 - · Group definition cannot be changed.
 - The number of groups is fixed at 1.
 - The station allocations for MECHATROLINK cannot be edited by changing the module configuration for any models other than MP940.

4.2 Selecting New Ladder Editor

When the new ladder program description method (new ladder editor) is used, the configuration must be set.

Setting Configuration

The following describes how to set the configuration.

1. Select "Configuration (C)" from "View (V)" in the File Manager.

 The "Configuration" dialog box appears. Select "Ladder Editor" and mark the "Use the new ladder editor." box. Removing the check mark makes the settings of the environment for the conventional ladder program description method (same as CP-717). Configuration x|

Controller type	Start up Functional setup	Engineering manager
	nanagement File transfer Othe	
Use the new ladder e [CAUTION] A controller folder tha when the new ladder	ditor. was made with the original ladder editor	is disabled
	OK Cancel Re	eset

3. The description method setting will be valid by clicking the [OK] button and starting up File Manager again.



When the new ladder program description method is selected, any applications that have been created by the conventional ladder program description method cannot be used.

4.3 Selecting Machine Controller

The "File Manager" window is the starting point for all operations. Select a Machine Controller by PLC to create a program or define data. After selecting a Machine Controller, MPE720 functions can be used. This paragraph describes the procedure until a Machine Controller is selected.



As shown in the "File manager" window, open the "GROUP1" (group folder) and "SYSTEM1" (order folder) in this order from the "root" folder, to display the system configuration. Clicking "+" (plus) sign displayed at the left side to the folder icons can develop the system configuration.

Double-click the "SYSTEM1" (order folder) to open it, and the PLC folder name is displayed below.



Before the PLC folder name, a different icon from others is displayed, so that it can be verified easily.

Logon

Double-clicking the PLC folder name can control the Machine Controller by programming or monitoring. Logon indicates the status where the control is available.

Move the cursor to the PLC folder name and right-click it before starting logon, the pop-up menu is displayed to switch online and offline modes.

✓ Online(O)	
Log On(G) Properties(R) Logoff(U)	Ctrl+R
File Transfer(T)	+
CPU Control(C) Ladder Converter Tool(L)	

"Online (O)" without a check mark indicates the offline mode and "Online (O)" with it indicates the online mode. Clicking the "Online (O)" switches the mode.

When logon is successful, "+" is displayed in front of the icon, indicating that logon is being done.



System Protection by User Registration

Double-clicking the PLC folder name for logon displays the following security dialog box.

CPU Log On			×
User Name	Γ	 	
Password	Γ	 	
OK		Cance	

Security Dialog Box

Users that are allowed to operate must be limited at logon in order to protect the Machine Controller system during programming or running. The MPE720 protects the system by the user name and password input.

User management supports user privileged level in addition to new user registration and registered user deletion. For details, refer to MP900/MP2000 Series Machine Controller MPE720 Programming Device Software User's Manual (SIEPC88070005).

1. User name input

Input a user name within 8 half block letters or 4 full block letters.

2. Password input

Input a password within 16 half block letters or 8 full block letters. For security, input letters are masked with "*." Password can be input again up to three times. Inputting it more than three times cancels logon.

User registration is not made for the first logon. In this case, specified user name and password that are determined in the system are needed. Refer to MP900/MP2000 Series Machine Controller MPE720 Programming Device Software User's Manual (SIEPC88070005).

Logoff

Perform logoff after a series of operations is completed. Otherwise, anyone can operate the Machine Controller, may endanger the system. The status where the Machine Controller cannot be controlled is called logoff. Perform logon again to control the Machine Controller again. Logoff must always be done after logon.

Move the cursor to the Machine Controller name and right-click it. Clicking the "Logoff (U)" in the displayed pop-up menu can perform logoff.

✓ Online(O)	
Log On(G)	
Properties(R)	Ctrl+R
Logoff(U)	
File Transfer(T)	۲
CPU Control(C) Ladder Converter Tool(L)	

When logoff is successful, all commands for the Machine Controller are dimmed and unavailable. The plus mark, "+," that was displayed on the left of the Machine Controller's name to indicate its logon status is no longer shown.

4.4 Exiting MPE720

Exit the MPE720 after logging off all the Machine Controllers that have been logged on. The MPE720 may not be exited if any windows other than the "File Manager" are opened. Therefore, close such windows.

Select "Exit (X)" from "File (F)" in the File Manager to exit the MPE720.

Clicking the "x" mark at the right top of the "File Manager" window can also exit the MPE720.



Closing Communication process

Move the cursor to the "Communication Process" displayed in the task bars and right-click it. Click the [Close] button in the displayed pop-up menu to close the "Communication Process."



When the dialog box to verify completion of communications appears, click the [Yes] button after verifying that communications are not being done.



4.5 Installation Disk Contents

Folder or File Name	Description
¥MPE720¥Bin	Setup file of DemoShield
¥Driver	Driver software for MP2100
¥Eng¥Manual¥Ladder¥	New Ladder Editor User's Manual (English version)
¥Mpe¥CamTool¥Disk1¥	Electronic cam data preparation tool (English version)
¥CimScope¥Disk1¥	Communications driver for machine controller (English version)
¥CpComSys¥Disk1¥	Communication process (English version)
¥Install¥Disk1¥Setup.exe	MPE720 installer (English version)
¥Nld¥Disk1¥	New Ladder Editor (English version)
¥Jpn¥Manual¥Ladder¥	New Ladder Editor User's Manual (Japanese version)
¥Mpe¥CamTool¥Disk1	Electronic cam data preparation tool (Japanese version)
¥CimScope¥Disk1¥	Communications driver for machine controller (Japanese version)
¥CpComSys¥Disk1¥	Communication process (Japanese version)
¥Install¥Disk1¥Setup.exe	MPE720 installer (Japanese version)
¥Nld¥Disk1¥	New Ladder Editor (Japanese version)
¥Plugin¥Adobe¥	Adobe Acrobat Reader 4.05 installer
	(Application to start up the PDF file)
¥Microsoft¥IE55	Microsoft Internet Explorer 5.5
¥SAMPLE	Sample Ladder for MP2000-series Machine Controller
¥DataSheet¥EDS¥	EDS file for MP900/MP2000-series DeviceNet module
¥GDS¥	GSD file for MP2000-series PROFIBUS module
¥TPFunc_n¥Tp920_23¥	Teach Pendant function ver. 23 for MP920 with New Ladder Editor
¥Tp930_22¥	Teach Pendant function ver. 22 for MP930 with New Ladder Editor
¥TPFunc_o¥Tp920_23¥	Teach Pendant function ver. 23 for MP920 with conventional Ladder Editor
¥Tp930_22¥	Teach Pendant function ver. 22 for MP930 with conventional Ladder Editor

5 TEACH PENDANT FUNCTIONS

This section describes how to install and use the Teach Pendant functions (hereinafter called TP functions) required whenever Teach Pendant (model: JEPMC-TB350/TB351) is used.

The TP functions are included in this CD-ROM. For details, refer to 4.5 Installation Disk Contents.

5.1 Installation Procedure of TP Functions

The following describes how to install the TP functions in the specified PLC folder.

1. Prepare for installing.

Insert the MPE720 installation CD-ROM into the CD drive.

The following window appears. Click the [EXIT] button to close the window.



2. Change the attribute of TP function file (remove the check mark from "Read-only").

The TP functions in the CD-ROM has the file attribute of "Read-only." To use the MPE720, the file attribute must be changed.

a) First, copy the required TP functions from the CD-ROM to the hard disk of the PC. The whole folder of the TP functions must be copied.

For example, when copying TP functions for MP920 and New Ladder Editor, copy the whole folder of "Tp920_23" below "MPE720 \TFunc_n."

b) Change the attribute of the files below "Tp920_23" folder. (Clear "Read-only," then select Archive.") Change the attribute in the "Property" display of each folder or file.

E	fpn92_23 Prop	erties	<u>?</u> ×
	General Shari	ng	
		Tpn92_23	
	Туре:	File Folder	
	Location:	H:\TPFunc_n	
	Size:	659 KB (675,756 bytes)	
	Size on disk:	830 KB (849,920 bytes)	
	Contains:	148 Files, 46 Folders	
	Created:	Wednesday, January 23, 2002, 6:25:26 PM	
Clear "Re	Attributes: ad-only."	<mark>∏B</mark> ead-only ∏ <u>H</u> idden	
Select "	Archive."	Archive	
		OK Cancel Ap	ply

3. Install the TP functions.

Start up the MPE720 and then File Manager, and perform logon in the offline to the PLC folder where the TP functions are to be installed.

📊 File Manager						_ 🗆 ×
File(F) Edit(E) View(V) Too	l(T) Help(H)					
	■ + -	. ?				
GROUP2		Ctrl+R				
	goff(U)					
	e Transfer(T)	•				
	U Control(C)					
Lat	dder Converter Tool(L)					
		L				
		File Name : CPL Controller Type		ype : CPU Folder		4
		Customer:	5. MF 320	User:		
		Equipment:	ion paramete	Usage:	Port Kind: CP-217	
		Database: Loca			FOR KING CP-217	-
Logon CPU					04/01	2002 10:54:49 AM

4. After logon, right-click to select "File Transfer (T)" - "Individual File Transfer (I)" - "Individual Program File Transfer [Other Media -> HD (T)]."

File Manager	
File(F) Edit(E) View(V) Tool(T) Help(H)	
E ×@ <u>•</u> > = = = = =	. ?
⇒ ⇒ (cod) ⇒ ⇒ ⇒ ⇒ ⇒	C Register Data Base Definition Programs Table Data Folder Polder
CPU Control(C) Ladder Converter Tool(L)	Individual File Transfer(() Individual Program File Loa([hD->CPU](L) Continuous File Transfer(C) Individual Program File Compare[CPU->HD](D) Other(o) Individual Program File Compare[CPU->HD](C)
	Other(U) P Individual File Program File Transfer(HD->FD)(F) Individual File Program File Transfer(FD->FD)(F) Individual File Program File Compare(FD<>+FD)(K) Individual File Program File Compare(FD<>+FD)(K)
	Individual Program File Transfer[HD->Other Media](E) Individual Program File Transfer[Other Media->HD](T)
	Individual Program File Compare[Other Media <- >HD](M)
	File Name : CPUI File Type : CPU Folder
Execute indivisual file tansfer[Others Media->HD]	

5. The dialog box "No floppy (optical) disk is in the drive" appears. Click the [Cancel] button.

	×
disk is in the driv	e.
Cancel	

6. The display concerning the contents of transfer appears. Click the [Change] button at the right of the "Destination."

*** Individual file transfer Disk to Disk	•		_ D ×
File(E) View(V) Help(H)			
69 ?			
Source A:\MP920A\CPU1	Us/GROUP1/SYSTEM1/MP!	Dhargel 220A\CPU1\ Charge	
DWG Details FUNC Details Table 0 als Details FBD manu Details FBD manu Expression guit System Conjugation Application Information Module Conjugation Type Definition	Scan Time Tog Lat Data Trace Fabres Definition Controler Configuration S Register S Register O Register O Register C Register	Gioup Detrivition Indoion Parameters Motion Man Program Detais Motion Sub Program Detais Fraud Diagnosti(ntelligentDp) Fault History Detains Detains Name Data Base Symbol Data Base C Language Function Details C Language Function Details	
			CAP //

7. When the setting display appears concerning the path of the transfer source, make the settings. For "Drive," select the drive where the TP functions have been copied.

For "Transfer path," input the folder name of the TP functions to be installed.

8. When the setting is completed, click the [OK] button.

Transfer path				×
Drive	C: •			
Transfer path	TPFunc_n\Tpn92_23		•	
[OK	Cancel		

9. The display concerning the contents of transfer appears again. Make the "FUNC" check box and click the [Details] button at the right of the "FUNC."

1ª Individual file transf	fer Disk to Disk -				_ 🗆 🗙
File(E) View(Y) Help(H)					
69 8					
Source C:\TPFun	c_n\Tpn92_23			Change	
· · · ·					
Destination C:\YeToo	Is\MPE720\Cp717U	sr\GROUP1\SYSTEM1\MP	320A\CPU1\	Change	
Transfer Mode Cha	nge 💌				
_					
□ DWG	Details	🗖 Scan Time	Group Definition		
FUNC	Details 🗲	🔲 Tag List	Motion Parameters		
Table Data	Details	🗖 Data Trace	Motion Main Program	Details	
Constant TBL(C R	EG) Details	Failures Definition	Motion Sub Program	Details	
FBD manu		Controller Configuration	🔲 Fault Diagnosis(Intelli	gent0p.)	
Engineering unit		M Register	🔲 Fault History	Details	
🗌 System Configurati	ion	S Register	🔲 Name Data Base		
Application Informa	ation	I Register	🗌 Symbol Data Base		
Module Configurat	ion	O Register	🔲 C Language Task	Details	
Type Definition		D Register	C Language Function	Details	
		C Register			
					CAP ///

10.The list of transfer data items is displayed. Mark the "Select All" check box and click the [OK] button.

FUNC Detail Data Set		x
Select All	Comment Data Transfer	
□TP_COMM □TP_HSCAN □TP_ILRD □TP_IW_RD □TP_ISCAN □TP_COL_RD □TP_OW_RD □TP_OW_WR □TP_OW_WR □TP_POSMN □TP_PTBLC □TP_STS □TP_SVMNG		
	OK Cancel	



If a TP function file is set to "Read-only" or the path of the folder specified for the transfer source is incorrect, the list of data files is not displayed.

11. The display concerning the contents of transfer appears again. Click the "transfer" icon at the left of the display. The dialog box, "Start transferring. OK?" appears. Clicking the [Yes] button starts transferring the data.

* Individual file transfer Di	sk to Disk -	•			
file(E) View(V) Help(H)					
69) ?					
Ŧ´	-				
-					
Source C:\TPFunc_n\1	pn92_23			Change	
Destination C:WeToolsWP	E720\Cp717U	Usr\GROUP1\SYSTEM1\MPS	320A\CPU1\	Change	
Transfer Mode Change	-				
1 .	_				
🗆 DWG	Details	🗐 Scan Time	Group Definition		
FUNC	Details	🔲 Tag List	Motion Parameters		
Table Data	Details	🗖 Data Trace	Motion Main Program	Details	
Constant TBL(C REG)	Details	Failures Definition	Motion Sub Program	Details	
FBD manu		Controller Configuration	Fault Diagnosis(Intellige	entOp.)	
🔲 Engineering unit		M Register	Fault History	Details	
System Configuration		S Register	🔲 Name Data Base		
Application Information		I Register	Symbol Data Base		
Module Configuration		C Register	C Language Task	Details	
Type Definition		D Register	C Language Function	Details	
		C Register			
					CAP
					CAP

12. When transfer is completed, the dialog box, "Transfer Completed" is displayed. Click the [OK] button and close the display concerning the contents of transfer.

File(F) View(V) Help(H)		
·	Charge Charge Charge Charge	
Transfer Mode Change Transfer Mode Change Details FUNC Details FUNC Details Constant TBLIC REG Details FBD manu Forgeneons unit System Configuration Application Information Module Configuration Type Detinition	Scan Tm Feld Transfer minon Trap List Transfer Completed minos Data Tase minos minos Controls Completed minos Data Tase Controls Completed minos minos Controls Completed minos Data Tase Controls Completed minos Data Tase In Begiste Fault History Data Tase In Begiste Simola Base Data Base O Register C Language Function Datab C Register C Language Function Datab	
		CAP

5.2 Changing Module Configuration Definition

Change the module configuration definition as follows:

- For "Automatically Reception," mark the "Disable" check box for MP930, and "Enable" for MP920.
- · For "Readout/Write-in of Coil," set "10000" as "Head REG," and "800" as "WD Size."
- For "Readout/Write-in of Hold Register," set "10000" as "Head REG," and "800" as "WD Size."

Generic Serial GROUP1\SYSTEM1 MP920A\CP 💶 🗙			
PT#:- CPU#:-			
CIR#01 CIR#02			
Transmission Protocol	MEMOBU	s 🕶	
master / Slave	Slave	•	
Device Address	1 -	(Master=0,Slav	re=1 - 63)
Serial I/F	R\$-232	•	
Transmission Mode	RTU	•	
Data Length	8Bit	•	
Parity Bit	even	•	
Stop Bit	1Stop	•	
Baud Rate	9600	•	
Sending	🖲 Disable		
	C Enable	0 -	(1 · 100ms)
Automatically Reception	🔿 Disable	💿 Enable	
Slave I/F Register Settings		Head RE G	WD Size
Readout of Imput Relay		IW0000	5120
Readout of Input Register		IW0000	5120
Readout / Write - in of Coil		MW00000	800
Readout / Write - in of Hold Register		MW00000	800
Write - in width of Coil / Hold Register LO: MW00000			
	HI		
			لے ر
 •			
			1.

5.3 Changing Ladder Program (in Case of Conventional Ladder Editor)

H Drawing

Set COMM and ENA-DIS of the TP HSCAN functions.

- COMM = Communications port enabled (MP930) / disabled (MP920)
- ENA-DIS = TP enabled /disabled



L Drawing

Set ENA-DIS of the TP_LSCAN.

ENA-DIS = TP enabled/disabled





- Difference of Usage between MP930 and MP920
 - When MP920 CPU Module port is used Validate automatic reception. Turn OFF the function "COMM" input. (MSG-RCV in the function will be invalid.)
 When MP930 or MP920/217IF is used
 - Setting of automatic reception is disregarded. Turn ON the function "COMM" input. (MSG-RCV in the function will be invalid.)
- Reason for Difference of Usage

Since the MP920 CPU Module serial port has the automatic receiving function, it receives the data sent from the Teach Pendant.

(Communications by automatic receiving function is performed by L-scan processing. Therefore, setting the L-scan setting time longer affects the response. It must be approximately 100 ms or less.)

Machine Controller MP900/MP2000 Series プログラミング装置用 ソフトウェア PROGRAMMING PANEL SOFTWARE MPF720 **MPE720** INSTRUCTIONS 取扱説明書



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