Upgrade Information of MPE720 Version 7.24

1.Added and Improved Functions

1.1 Ver.7.24Upgrade Information

Items added and features improved from MPE720 version 7.23 to version 7.24 are as follows.

No.	Feature	Classification
1	267IF-01 (CC-Link Master) module was added.	Add function
2	The mode 4 was added to the ACCMODE command of Motion Program.	Add function
3	"Non FD" was added to the setting item of the transmission protocol of 217IF-01 module.	Improvement
4	The variable auto-registration function of the Ladder program was supported.	Improvement
5	The copy option of the register comment was supported in the replace function of Ladder editor.	Improvement
6	The move option of the register comment was supported in the Replace in the Project.	Improvement
7	The replace function of the motion register was supported in the Replace in the Project.	Improvement
8	The replace function of Bit type registers has been improved in the Replace in the Project.	Improvement
9	The export function of variable and comment has been improved.	Improvement
10	Conversion operation of symbols has been improved.	Improvement
11	The compatible mode of MPE720 Ver6 of project files were added to the Environment Setting.	Improvement
12	The Register Map function was added to Comment List function.	Improvement
13	The display improvement of the output log of the Search function was carried out.	Improvement
14	The improvement of the export and import function of the Tuning panel was executed.	Improvement
15	The improvement of the sampling period of Real-Time Trace function was carried out.	Improvement
16	The shortcut key of Ladder program was added.	Improvement
17	The improvement of operation of the program selection check tree was carried out.	Improvement
18	The compile operation of Ladder program has been improved.	Improvement
19	The compile operation of "Compile All Programs" has been improved.	Improvement
20	The operation of "Open program" of Ladder program has been improved.	Improvement
21	The input operation of the FUNC command of Ladder program has been improved.	Improvement
22	The improvement of the "Axis Type Setting" screen of the Axis Setup Wizard function was carried out.	Improvement
23	The display improvement of the Edit Parameter dialog of Ladder editor was carried out.	Improvement
24	The improvement of the Search of Ladder editor was carried out.	Improvement
25	The display improvement of Motion Command of Axis Monitor was carried out.	Improvement
26	The improvement of saving a project file has been carried out.	Improvement
27	The conversion operation to a Ver6 compatible project file (extension: YMW) from the compressed file (extension: MAL) of MPE720 Ver5 has been improved.	Improvement

28	The operation Saving of the SVB module of MC-Configurator has been improved. (PART 1)	Improvement
29	The operation Saving of the SVB module of MC-Configurator has been improved. (PART 2)	Improvement
30	The display improvement of the SERVOPACK version of Servo Parameter screen was carried out.	Improvement
31	The improvement of operation at the time of communication disconnection of a communication platform was carried out.	Improvement

(*): When MPE720 Ver.7 before MPE720 Ver.7.11 is already installed in Windows Vista and Windows 7, it may not operate for the newest information of the servo model addition by the axial setup wizard function (the newest information added into the database) updated by after MPE720 Ver.7.13.

Please refer to the following page for operating procedures.

[About the restriction matter when using MPE720 Ver.7 in Windows Vista and Windows 7]

When MPE720 Ver.7 is used in Windows Vista and Windows 7, the following phenomena might be generated.

<Phenomena>

When MPE720 Ver.7 before MPE720 Ver.7.11 is already installed in Windows Vista and Windows 7, it may not operate for the newest information of the servo model addition by the axial setup wizard function (the newest information added into the database) updated by after MPE720 Ver.7.13.

<Measures>

Using a batch file, the following folder is deleted. (*1) C:¥Users¥UserName(*2)¥AppData¥Local¥VirtualStore¥Program Files(*3)¥YASKAWA¥MPE720 Ver7

Procedure

1. The batch file enclosed by MPE720 Ver.7 installer is copied to a desktop.

[Download Version] MPE720Ver7_xxx(*4)¥Tools¥CleanUp¥MPE720Ver7_x86.bat (32bitOS) MPE720Ver7_xxx(*4)¥Tools¥CleanUp¥MPE720Ver7_x64.bat (64bitOS) [CD Media Version] D(*5):¥Tools¥CleanUp¥MPE720Ver7_x86.bat (32bitOS) D(*5):¥Tools¥CleanUp¥MPE720Ver7_x64.bat (64bitOS)

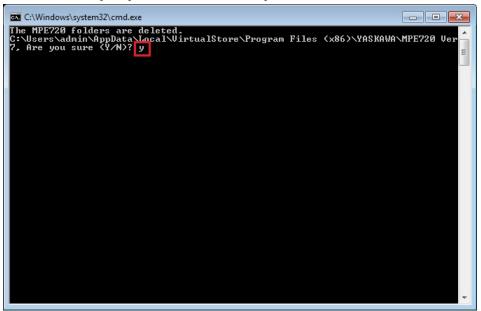
2. The copied batch file is performed.

MPE720Ver7_x86.bat (32bitOS)

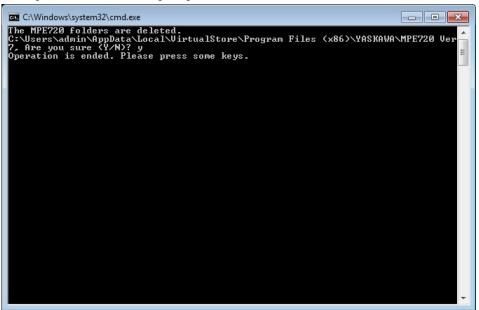
MPE720Ver7_x64.bat (64bitOS)

Control Panel 🔸	System and Security 🔸 System		- 4 Search Con 🔎
Control Panel Home	View basic information	about your computer	r 🖉 ^
🚱 Device Manager	Windows edition		
🚱 Remote settings	Windows 7 Home Premiur	m	
🚱 System protection	Copyright © 2009 Microso	oft Corporation. All rights res	served.
😵 Advanced system settings	Service Pack 1 Get more features with a n	ew edition of Windows 7	
	System		E
	Rating:	1,0 Your Windows Expe	rience Index needs to be refreshed
	Processor:	Intel(R) Pentium(R) CPU	P6200 @ 2.13GHz 2.13 GHz
	Installed memory (RAM):	4.00 GB (3.68 GB usable)	
	System type:	64-bit Operating System	
	Pen and Touch:	No Pen or Touch Input is	available for this Display
	Computer name, domain, and	l workgroup settings	
See also	Computer name:	admin-PC	🚱 Change settings
Action Center	Full computer name:	admin-PC	
Windows Update Performance Information and	Computer description:		
Performance Information and Tools	Workgroup:	WORKGROUP	
	340° 4 17 17		

3. "y" is inputted on a command prompt and the Enter button is pushed.



4. The Enter button is pushed on a command prompt after deletion.



- (*1): When multi-user is using one set of PC, please operate it by each user.
- (*2): The user account name that logs in enters.
- (*3): The path changes by OS.

32bitOS: Program Files

64bitOS: Program Files (x86)

- (*4): The path changes by version.
- (*5): The path changes by CD/DVD drive.
- (*6): When an installation path is changed at the time of MPE720 Ver.7 installation, please delete the "MPE720 Ver7" folder which a folder subordinate has below manually according to the installed path.

C:\Users\UserName(*2)\AppData\Local\VirtualStore

[About compile of the parallel circuit]

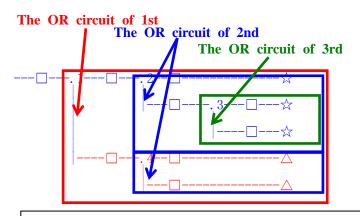
In the Ladder program of MPE720 Ver7 before MPE720 Ver7.23, when the parallel circuit is used, the following phenomena may occur.

<Phenomena>

When the circuit containing the following pattern was created, there was a phenomenon of operating without receiving the condition that the circuit below the OR circuit of 1st class must operate essentially in response to the conditional instruction before the OR circuit of 1st class.

<Measures>

When a phenomenon occurs, please carry out re-compile about the Ladder program in MPE720 Ver7 after MPE720 Ver7.24. Or please carry out again "Compile All Programs" of "Compile" menu.



The OR circuit of 1st class: The OR circuit branched from the bus-bar of langue. The OR circuit of 2nd class: The OR circuit branched out of the OR circuit of 1st class.

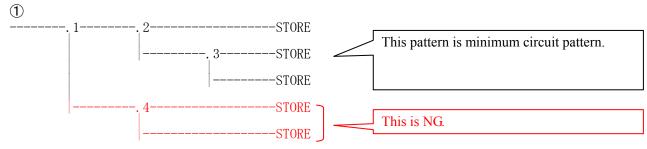
The OR circuit of 3rd class: The OR circuit branched out of the OR circuit of 2nd class.

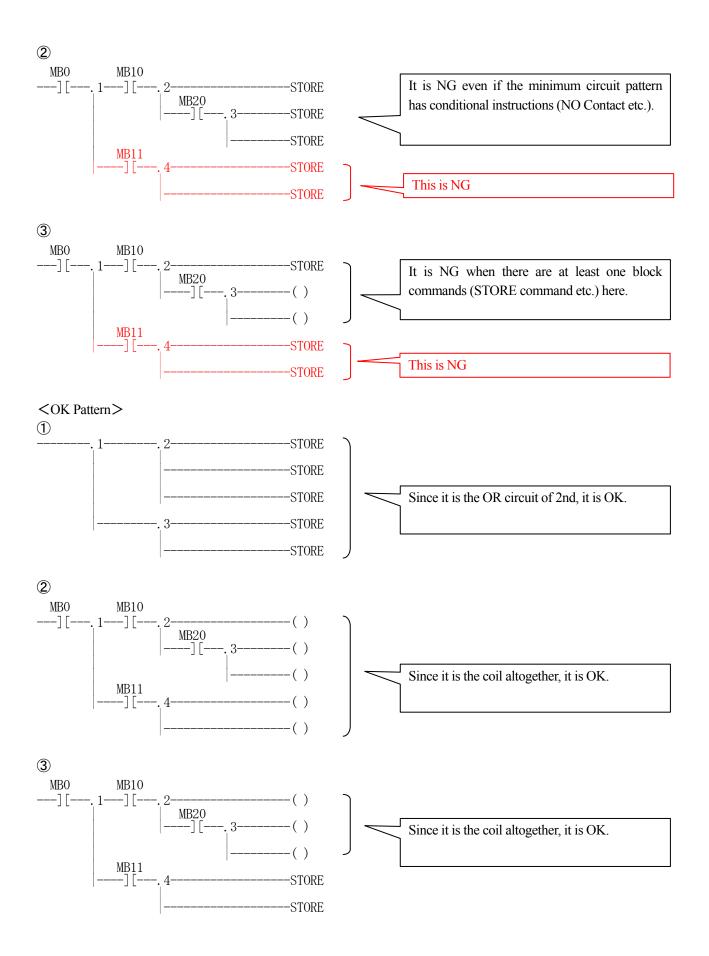
□(Conditional instruction): NO Contact, NC Contact, Coil, instruction(==, !=, >, <), power line (-----) etc. ☆(Output instruction): Coil, Block instruction(Expression, STORE, COPYW) etc ※However, when all ☆ is coil commands, a phenomenon does not occur. △(Output instruction): Coil, Block instruction(Expression, STORE, COPYW)etc

<Pattern>

Symbol	Instruction
][NO Contact
STORE	STORE instruction
()	Coil

<NG Pattern>





1.2 Past Upgrade Information

No.	Upgrade Information	Remarks
1	MPE720 version 7.11 upgrade information	version 7.10→version 7.11
2	MPE720 version 7.13 upgrade information	version 7.11→version 7.13
3	MPE720 version 7.14 upgrade information	version 7.13→version 7.14
4	MPE720 version 7.20 upgrade information	version 7.14→version 7.20
5	MPE720 version 7.21 upgrade information	version 7.20→version 7.21
6	MPE720 version 7.23 upgrade information	version 7.21 \rightarrow version 7.23

2. Description No. 1 267IF-01 (CC-Link Master) module was added.

267IF-01 (CC-Link Master) module was added to the option module with which MP2000 series can be equipped.

Module	Function Module/Slave	Detail - [CC-LINK-M]	Court Bach	-		-	-		1	-		×
01 [MP2200-04] :		File Edit View										
	01 CPU	PT#: CPU#: Detail Definition Comm	unication status Static	on Status	Circuit Test			CIR#01	00800-	013CF		
00	02 ± SVR	CC-Link Version	r1 1 0					— – Setting range				
	03 218IFC	Transmission Speed	1 OMbps 👻	Output D	ata Refresh C	vole 🔎	Low 🔿 High	No. of bits			0	0/8192
	04 UNDEFINED	No. of retries	3 🗸		irror: Commun	•	Stop C Continue	No.ofwords (A) No.ofren	note I/O stat	ion	0	0/2048
01 💽 267IF-01[]	01 CC-Link-M	No. of automatic recove	ries 1 💌	CPU Stop	p: Data Output	•	Clear 🔿 Retain	(B) No. of ren	note device s	tation		0/42
02 UNDEFINED[] 03 UNDEFINED[]				Receptio	n Error: Data I	nput (•	Olear () Retain	(C) No. of loc (16*A) + (541		levice station		0/26)/2304
04 UNDEFINED[]		Slave Allocation										
05 UNDEFINED[] 06 UNDEFINED[]		k ¥ I ✓ Display Occupied Stations										
06 UNDEFINED[] 07 UNDEFINED[] 08 UNDEFINED[]		ST No.	Station Type		Cyclic Exp ansion	No. of Oc cupied St ations	Data Points	Reserved/Err or immunity	Sending	Receiving	Scan C ycle	No. of words
02 UNDEFINED		01		-	-	-	•	-			•	
03 UNDEFINED		02		-	-	- -	•				* * *	
04 UNDEFINED		•		•							•	
		CD-Link version Select the CO-Link vers If the CO-Link version is stations.		to Ver.1.10	l, stations whe	re a Ver. 2 de	vice has been allocat	ed at Station Type '	for slaves will	be deleted, and	l will be cha	in ged to u
		•				III						F.
		New File										
		For Help, press F1										_//_

[Support Version]

Controller

controller	
Controller	Support Version
MP3200 Series	Unsupported
	(It is due to correspond by future upgrade.)
MP2000 Series	Ver2.86 or later

Option Module

Module	Support Version
267IF-01	Ver1.00 or later

No. 2 The mode 4 was added to the ACCMODE command of Motion Program.

The mode 4 was added to the ACCMODE command of Motion Program. In interpolation command (MVS/MCC/MCW/SKP), the setup of FE is attained. Moreover, it corresponded to the two following motion program alarms.

①Address M out of range

Item	Description
Alarm Code	31H
Alarm Name	Address M out of range
Description	Designation exceeded the valid range in the ACCMODE command.
Corrective Actions	Review the setting in the ACCMODE command.

2 Specified address error

Item	Description
Alarm Code	32H
Alarm Name	Specified address error
Description	The address which is not used by setup of ACCMODE was specified in
Description	the MVS/MCW/MCC/SKP commands.
Corrective Actions	Review the setting in the ACCMODE/MVS/MCW/MCC/SKP command.

Controller	Support Version
MP3200 Series	Ver1.09 or later
MP2000 Series	Ver2.86 or later

No. 3 "Non FD" was added to the setting item of the transmission protocol of 217IF-01 module.

"Non FD" was added to the setting item of the transmission protocol of 217IF-01 module.

Detail - [CP-217]	-		×
<u>F</u> ile <u>V</u> iew			
PT#: CPU#:		CIR#01	
CIR#01			
Transmission Protoco Master/Slave Device Address Serial I/F Transmission Mode Data Length Parity Stop Bit Baud Rate	MEMOBUS MELSEC OMRON None FD RTU 8Bit	• eter=0,Slave=1-63) • •	III
Sending	 Disable 		
	O Enable	0 (1 - 100ms)	
Receive monitor time	⊙ Disable (10	ms+3bytes transmission time))
	C Enable	0 (0-255ms)	
Automatically	⊙ Disable – C	Enable	
Automatically Reception		Head REG WD Size	
Readout of Input Relay		W00000 32768	-
For Help, press F1			

[Support Version]

a	. 11	
('on	troller	
CADH		

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

Option Module

Module	Support Version
217IF-01	Ver2.00 or later

No. 4 The variable auto-registration function of the Ladder program was supported.

The commands (MSEE command etc.) which use the address type register of Ladder program, when an address type register was set up, the function which carries out variable registration automatically was supported.

By registering a variable into Watch function, it is possible to check the member of the address type register.

Example)

When MA0 is set to Data (address type register) of MSEE command

1. An input of MA0 will start a variable registration screen.

			H:				
		1 1	· · · · · · · · · · · · · · · · · · ·	M	SEE 🔺 [W] Pr		
07-						? MA0	_
17	🔡 Variable De	finition [H]					Х
	Variable Name	MSEE_001		System Struct	ure 🔘 l	Jser Structure	
	Register	MA00000	•	Structure Name	MSEE : Call	Motion Program	•
	Comment	Call Motion Program	*	Variable Name	Register	Comment	
				Status	MW00000	Status	ĺΠ
				Status.Run	MB000000	Running	=
				Status.Pause	MB000001	Pausing	
				Status.Syste	MB000002	Stopped	۲
				Status.Single	MB000004	Stopped und	
			-	Status.Alarm	MB000008	Alarm	
				Status.Debug	MB000009	Stopped at b	
			Structure <<	Status.Debug	MB00000B	Debugging m	
Help (F2)	4		Structure <<	Status.History	MB00000D	Start request	
				Status.Syste	MB00000E	No system w	7
		Option OK	Cancel	•			

2. If the "OK" button is depressed, it will register with variable window.

Start	MPM001 * H		÷ ×	Variable	+ д Х
0 0/- 1 1/-		H: MSEE [W]Program N.[A]Data ? MSEE_DO1 END	Local Variable III III	Comment List Equister Government List Government	EE_001[MSEE] (MA0)000) ol Signals : Control (: InterpolateOverrid
F1 Helt F2) Edit 🖓 Sea 🗗 Co	m F5 A ct F6 B ct F7 Coil F8 Stor F9 Crea F10 Joi	n [FI] Rele [FI2]	🗄 Ladder Instruction 🔡 Variable	3

3. The member of a structure can be checked by registering "MA0" into a watch.

Start MPM001 * H				∓ × Variable	
0		H: MSEE [W]Program NJ[A]Data			
0/-		? <u>MSEE_</u> 0	8	Cut	Ctrl+
17-	-	END	- R	Сору	Ctrl+
			ß	Paste	Ctrl+
				<u>D</u> elete	Delet
			۵Ô	<u>F</u> ind	Ctrl+
1 Heli F2 Edit F3 Sea F4 Con F5	AcF6	B cr [F7] Coil [F8] Sto [F9] Cre: [F0] Jo	nir 🖓	R <u>e</u> place	Ctrl+
/atch 1				Inser <u>t</u> Rung	Shift+Inse
Variable	Value	Comment	-	Delete Rung	Shift+Delet
MSEE_001 (MA00000)		Call Motion Program		Insert Rung Comment	Shift+Alt+Inse
Status (MW00000)	0	Status			
Run (MB000000)	OFF	Running		Delete Rung Comment	Shirt+Ait+Delet
Pause (MB000001)	OFF	Pausing		Insert Instruction	
SystemPause (MB000002)	OFF	Stopped		-	
SingleBlockPause (MB000004)	OFF	Stopped under single block mode		Add Instruction and Bra	ancn
Alarm (MB000008)	OFF	Alarm		Insert Branc <u>h</u>	Ctrl+
 DebugBreak (MB000009) Debug (MB00000B) 	OFF	Stopped at break point Debugging mode		Edit Instruction	
History (MB00000D)	OFF	Start request signal history		Delete Instruction	Ctrl+Delet
SystemWorkError (MB00000E)	OFF	No system work error		-	
ProgramNoError (MB00000F)	OFF	Main program number limit error		Edit <u>P</u> arameter	Ctrl+Ent
	0	Motion Program Control Signals	x	Cross Reference	Ctrl+
InterpolateOverride (MW00002)	0	Interpolation override			
SystemWorkNumber (MW00003)	0	System work numbers		Add to <u>W</u> atch	Ctrl+\
				Add to Scope	
			-	Add to <u>s</u> cope	

4. It is possible to change the validity and invalidity of Variable Registration Assistance on the "Ladder" => "General" of Environment Setting screen.

Environment Setting			
System		Program	
Security		Create new CP ladder	Use
Setup		Compile Option	
🗁 Ladder		Multiple coil check	Enable
		Compile to ver.5 compatible (version 5.34	Disable
General		Save to flash after complete compiling.	Disable
Color		Shortcut Key	
Font		Allocation of function keys	[Default Setting]
Display		Input Assistance	
Edit		Easy register input	Disable
KeyAssign		Variable Registration Assistance	
Motion		Automatically register address registers.	Enable 🔹
C language			
Monitor			
🛅 Transfer			
m Print			
🛅 Message	Se	Itomatically register address registers. lect this option to automatically register addre dress registers are specified.	ss registers when you use instructions for which
		(OK キャンセル 適用(A)

[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 5 The copy option of the register comment was supported in the replace function of Ladder editor.

The copy option of the register comment was supported in the replace function of Ladder editor.

It is possible to leave register comments to both search register and replace register by checking in the check box of "which copies a search register comment to a substitution register."

[The starting method of the replace function of Ladder editor]

- 1. Open Ladder program.
- 2. Choose "Edit" menu => "Replace."

Replace			×
Register Comment			
Search Register	MW00000	▼	Search
Replace Register	MW00100	-	Replace
Copy comments	from search registers to replace registers.	Search Direction	Replace All Cancel
		Select Range	
		Start Rung 🛛 🚔	
		End Rung 0 🚔	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 6 The move option of the register comment was supported in the Replace in the Project.

The move option of the register comment was supported in the Replace in the Project.

- 1. It is possible to also replace register comments by checking in the check box of "moves search register comments to replace registers".
- 2. Moreover, it is possible to leave register comments to both search register and replace register by checking on check box of "It leaves search register comment".

[Starting method of the replace function in the project]

- 1. Off-line is used.
- 2. "Edit" menu => "Replace in the Project" is chosen.

Replace in the project	
Register Address	
Search Registe Kind M 🗸 Type BWLQFDA 🗸	Address 00000 Replace All
Replace Register Kind M	Words 10 Cancel
Move comments from search registers to replace registers.	Target Program
	 ● Program ⊕ Ladder program ⊕ Motion program ⊕ Sequence program
When the program is opened by Engineering Builder to the open again after closing the program or executing.	replacing execution, the program is not updated automatically. Please

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 7 The replace function of the motion register was supported in the Replace in the Project.

In the Replace in the Project, the replace function of the motion register (Kind: AXIS) was added.

If "AXIS" is chosen on the kind and is specified Circuit number and Axis number, it is able to perform all-replacement of motion register.

[Starting method of the replace function in the project]

- 1. Off-line is used.
- 2. "Edit" menu => "Replace in the Project" is chosen.

R	eplace in the project	
	Register Address	
	Search Registe Kind AXIS V Circuit 1 V Axis N	o. 1 Replace All Cancel
	Replace Register Kind 🖾 🗸 Circuit 🛛 🗸 Axis N	0. [2] •
	Move comments from search registers to replace registers.	Target Program
	Leave search register comments.	🔘 Text 🚽
		O Program
		⊕ ✓ Ladder program ⊕ _ Motion program ⊕ _ Sequence program
	When the program is opened by Engineering Builder to the open again after closing the program or executing.	eplacing execution, the program is not updated automatically. Please

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 8 The replace function of Bit type registers has been improved in the Replace in the Project.

In the Replace in the Project, "B (Bits)" was added to the replace of the Bit type register. When "B (Bits)" is specified, it can replace also to the Bit type register of the same address.

[Starting method of the replace function in the project]

- 1. Off-line is used.
- 2. "Edit" menu => "Replace in the Project" is chosen.

Replace in the project			×
Register Address			
Search Registe	Kind M	Address 000000 Bits 10	Replace All
Replace Register	Kind M	Address 00000A	
Move comments from	n search registers to replace registers.	Target Program	
Leave search reg	gister comments.	─ Text	
		Program	
		 	
When the progr open again after	ram is opened by Engineering Builder to th er closing the program or executing.	the replacing execution, the program is not updated automa	atically. Please

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 9 The export function of variable and comment has been improved.

In the export function of variable and comment, the function in which the range of the register to export can be specified was supported.

Conventionally, all the registers into which the comment was registered had been exported.

[starting method of the export function of variable and comment]

- 1. Choose "File" menu => "Export"
- 2. Choose "Export variable and comment of the specified register" of "Variable and Comment" on the Export screen.

Export Setting	×	
Register Start register M ▼ B(Words) ▼ 00000 Words 100	OK Cancel	
Export target Target Program		
Option Iso export registers with no variables or comments.		

Controller	Support Version	
MP3200 Series	It is not dependent on the version.	
MP2000 Series	It is not dependent on the version.	

No. 10 Conversion operation of symbols has been improved.

When the compression file (extension: MAL) created by MPE720 Ver5 is opened by MPE720 Ver7, the project conversion from MAL file to the Ver6 compatible file (extension: YMW) carried out. And the improvement which can unify in comments the symbol of the register used by CP Ladder etc. was supported. XIt is changed in the format of the "symbol.comment."

Example)

The symbol and comment of MW00000 in a MAL file

Register No	Symbol	Comment
MW00000	Symbol1	Comment1

↓ The symbol and comment of MW00000 in a YMW file

Register No	Comment
MW00000	Symbol1.Comment1

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 11 The compatible mode of MPE720 Ver6 of project files was added to the Environment Setting.

The check of "Check the compatibility with Ver.6" was added to the System => Development environment of the Environment Setting.

The following operation is added when "Check the compatibility with Ver.6" is chosen.

*The selection of "Check the compatibility with Ver.6" can choose only at the time of the Ver6 compatible project file (extension: YMW).

[Operation]

- 1. When the compile mode of the EXPRESSION command of the Ladder program or Motion program is changed into "Version 7.00" from "Ver.6 Compatible", display a warning message.
- 2. When it compiles where "Version 7.00" mode is chosen as the compile mode of the EXPRESSION command of the Ladder program, or Motion program, output "warning" to an output window.
- 3. When the parallel circuit supported from Ver7.20 is created and compiled in the Ladder program, output "warning" to an output window.

Environment Setting	
System Communication S Controller Type Language Controller Type Language Controller Type Language Language Controller Type Language Controller Type Controller Type Controller Type Language Controller Type Controller Controller Controll	Development environment Compatibility ☑ Check the compatibility with Ver. 6.
 Monitor Transfer Print Message 	When this function is enabled, a warning will appear about commands and functions that cannot be used with MPE720 Ver. 6.
	OK キャンセル 適用(<u>A</u>)

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 12 The Register Map function was added to Comment List function

The function which displays Register Map (register in use) on the Comment List function by a color was added. It is possible to check the registers in use, the registers overlapped and used, and the registers in no use by using Register Map function.

Register List - 🗸	Register M	W00000 🔻 Program 💽 🕑 🖬 🖿 🔯 📰 🕅 🎆	
D I (Input Register)	Display m	ode	
🕤 O (Output Register)	All Regis	ter View Save	
🖳 🕹 M (Data Register)			
🙄 G (Data Register)	Register	Comment	1
C (Constant Register)	MW00000	Commt0	
D (Internal Register)	MW00001	Commt1)
	MW00002	Commt2	
🕘 X (Function Input Register)	MW00003	Commt3	
Y (Function Output Register)	MW00004	Commt4	
Z (Function Internal Register)	MW00005	Commt5	
A (Function External Register)	MW00006	Commt6	
	MW00007	Commt7	
	MW00008	Commt8	
	MW00009	Commt9	
	MW00010	Commt10	
	MW00011	Commt11	ŀ
	•	m	

Color	Content
Yellowish green	Registers in use
Light yellowish green	The register used by the command which specifies the width of registers
	to be used, such as a COPYW command
	When the value is directly set up for the preset value of register width
Yellow	The register specified by the index register
	• The register used by the command which specifies the width of
	registers to be used, such as a COPYW command
	When the register was used for the preset value of register width and
	the value is set up
Red	The register used by overlapping

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 13 The display improvement of the output log of the Search function was carried out.

When searching, it has improved so that register comments may also be displayed on the Search window.

Search 1
Start the search 'Kind: M Type: BWLQFDA Address: 00000 No. of words: 10' [H]
H : [Rung 0000, Step 0000, NOC, Operand 00] : MB000000 : NO (ontact : Comment I
H : [Rung 0000, Step 0001, COIL, Operand 00] : MB000001 : Coil Comment2
H : [Rung 0001, Step 0002, NOC, Operand 00] : MB000000 : NO (ontact : Comment1 📘
H : [Rung 0001, Step 0003, COIL, Operand 00] : MB000001 : Coil Comment2
H : [Rung 0002, Step 0004, NOC, Operand 00] : MB000000 : NO 🚺 ontact : Comment1 📕
H : [Rung 0002, Step 0005, COIL, Operand 00] : MB000001 : Coil Comment2
H : [Rung 0003, Step 0006, NOC, Operand 00] : MB000000 : NO Contact : Comment1
H : [Rung 0003, Step 0007, COIL, Operand 00] : MB000001 : Coil : Comment2
H : [Rung 0004, Step 0008, NOC, Operand 00] : MB000000 : NO Contact : Comment1
H : [Rung 0004, Step 0009, COIL, Operand 00] : MB000001 : Coil : Comment2
H : [Rung 0005, Step 0010, NOC, Operand 00] : MB000000 : NO Contact : Comment1
H · [Rune_0005] Sten_0011_COTI_Operand_001 · MB000001 · Coil · Comment2
💼 Output 👖 Search 1 🎦 Transfer 🖽 Register List 1 🔠 Watch 1 🔃 AutoWa

[Support Version]

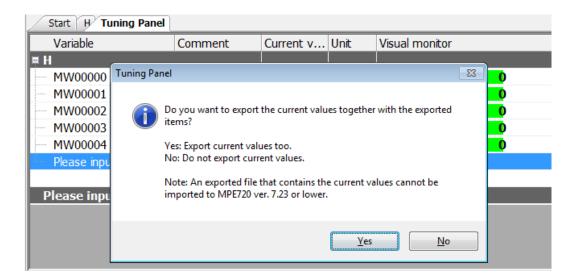
Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 14 The improvement of the export and import function of the Tuning panel was executed.

It has improved so that the current value can be exported and imported to export and import function of the Tuning panel function.

*The export data including the current value cannot do import with MPE720 before MPE720 Ver7.23.

If you want to import export data in MPE720 before MPE720 Ver7.23, it is possible to import export data which does not contain the current value.



Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 15 The improvement of the sampling period of Real-Time Trace function was carried out.

It improved it to acquire data for the unit of [sec], [min], and [hour] at the setting that synchronized with High scan and Low scan at the sampling period of the Real-Time Trace function.

*The maximum setting is different according to the set time of High scan and Low scan and the setting of the size of the trace buffer.

Sampling & Trigger Setting				
Trace Name				
Sampling Setting				
Trace buffer size 1024[K word] Use all buffer.				
Sampling period [sec] -> Max. measuring time 174635000.0000 [ms] -				
Trigger Setting 5 10				
No trigger 15 C Edge OFF Details 20				
25 Target register (B 30 40 45 50				
Tracing time afte 55				
ON				
Max. measuring time x 0 (%) = 0,0000 (ms) -				
Max. measuring time				
OK Cancel				

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 16 The shortcut key of Ladder program was added.

The "Ctrl+Q" was allocated to the shortcut key when changing from NO Contact to NC Contact, and from NC Contact to NO Contact.

· [H]		Ж	Cu <u>t</u>	Ctrl+X	-			_
ogram <u>C</u> or	mpile <u>D</u> ebug	Ф,	Copy	Ctrl+C				
6 10 Ci	ሰሰ 🎨 የሕ 🛙	r,	<u>P</u> aste	Ctrl+V	աննան 🚡 📩	n 🖳 🚽		
10 10 -0	- 🖉 🛛 🕂		<u>D</u> elete	Delete	ank 💂 : 🎫 📼 🛛	- 🐹 😏	Ŧ	
t.		ΔĤ	<u>F</u> ind	Ctrl+F				
orks¥Proj	ectFiles¥ddd.Y	Ą`₿	R <u>e</u> place	Ctrl+H				
tor Tra	nsfer Utilit		Inser <u>t</u> Rung	Shift+Insert		_	_	_
controller	Save to fla		Delete Rung	Shift+Delete				
Start	H		Insert R <u>u</u> ng Comment	Shift+Alt+Insert				
			Delete Rung Co <u>m</u> ment	Shift+Alt+Delete				
0	MB000000		Insert Instruction	•				MB000001
0/0			Add Instruction and Bran	nch 🕨 🕨				
1	MB000000		Insert Branc <u>h</u>	Ctrl+B				MB000001
	MB000000		Edit Instruction					MB000001
2 4/4	——————————————————————————————————————		Delete Instruction	Ctrl+Delete				O
_	MB000000		Edit <u>P</u> arameter	Ctrl+Enter				MB000001
8 676			Relay Type	•				<u> </u>
4	MB000000		Chan <u>d</u> e to B Constant	Ctrl+Q				MB000001
8/8	<u></u> MB000000	<u>X</u>	Cross Reference	Ctrl+R				 MB000001
5			Add to Watch	Ctrl+W				
6			Add to Scope					
1) Help	F2 Edit	/ •	Force O <u>N</u>		cai (F7) Coil 🛛 🤇	F8 Store	F9 Create	the I Fri Join the I Fri
		10	Force OFF					
		-0-	Disable Force					

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 17 The improvement of operation of the program selection check tree was carried out.

The program selection check tree of a transfer function, the search in project, the replace in project, and the "Transfer File Settings" of "Transfer" => "MPLoader" of Environment Setting screen was improved as follows.

Example)

When only the grandchild drawing existed. (H drawing do not exist, H01 drawing do not exist, H01.01 drawing exists)

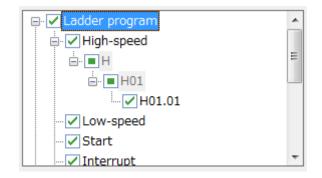
[before it improved it]

The operation was able to apply the check to H drawing and the H01 drawing program selection check tree. (The operation where H drawing and the H01 drawing seemed to exist.)

[after it improves it]

The program selection check tree, the gray is displayed to H drawing and the H01 drawing. Moreover, it is operation that cannot apply the check to H drawing and the H01 drawing.

In addition, it is movement of three state check boxes.



State	Content			
	With no check			
	(The state that all programs have not been selected in the tree of the lower layer)			
	Intermediate state			
	(The state that a part of program has been selected in the tree of the lower layer)			
	With checks			
•	(The state that all programs have been selected in the tree of the lower layer).			

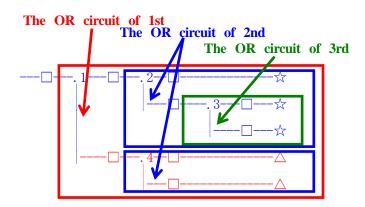
Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 18 The compile operation of Ladder program has been improved.

In compile operation of Ladder program, when a circuit including the following circuit pattern (parallel circuit supported from MPE720 Ver7.20) was created, a part of circuit might not operate normally. So, this has been improved.

[Phenomenon]

When the circuit containing the following pattern was created, there was a phenomenon of operating without receiving the condition that the circuit below the OR circuit of 1st class must operate essentially in response to the conditional instruction before the OR circuit of 1st class.

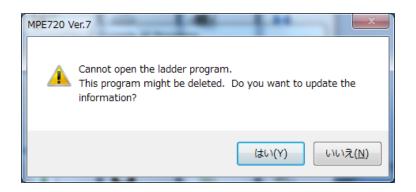


Item	Content
The OR circuit of 1st class	The OR circuit branched from the bus-bar of langue.
The OR circuit of 2nd class	The OR circuit branched out of the OR circuit of 1st class.
The OR circuit of 3rd class	The OR circuit branched out of the OR circuit of 2nd class.
□(Conditional instruction)	NO Contact, NC Contact, Coil, instruction(==, !=, >, <), power line() etc.
\bigstar (Output instruction)	Coil, Block instruction(Expression, STORE, COPYW) etc.
	However, when all $rightarrow$ is coil commands, a phenomenon does not occur.
Δ (Output instruction)	Coil, Block instruction(Expression, STORE, COPYW) etc.

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 19 The compile operation of "Compile All Programs" has been improved.

When the compile operation of "Compile All Programs" was carried out, there was a phenomenon in which the compile result of the already deleted program was displayed on the output window, and was used as a compile error. So, this has been improved.

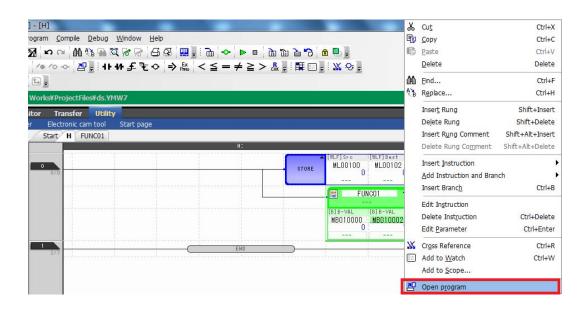


[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 20 The operation of "Open program" of Ladder program has been improved.

When the FUNC command was arranged below an OR circuit and "Open program" was carried out, there was a phenomenon which cannot monitor the status of the function referred to. So, this has been improved.



Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 21 The input operation of the FUNC command of Ladder program has been improved.

Where a function (FUNC01) is created, when "func func01" was inputted on a rudder editor, there was a phenomenon in which "func01" of a small letter could be set up. So, this has been improved.

Start	FUNC01 * H					
			H:			
07-		1		 🖹 fu	ncO1	
				 (B) B-VAL ? ?	[B] B-VAL ? ?	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 22 The improvement of the "Axis Type Setting" screen of the Axis Setup Wizard function was carried out.

In the Axis Setup Wizard function, when the following operation was carried out, since there was a phenomenon that a different preset value from the preset value written in the SERVOPACK is displayed on the "Encoder selection" of "Axis Type Setting" screen. So, this has been improved.

[Operation]

- 1. Carry out online to a controller.
- 2. Start the Axis Setup Wizard function and "1. SERVOPACK Parameter Setting".
- 3. Complete a setup of SERVOPACK parameter and write the preset value in the SERVOPACK.
- 4. If the "2. Axis Type Setting" of "2. Motion Parameter Setting" screen is opened, it will be a different preset value is displayed on the "Encoder selection".

🖽 Axis Type Setting	×	
Motor Type		
Servo Type	: 0 : Rotary	
Encoder selection	: 1 : Absolute encoder v	
Number of pulses per motor rotation	: 131072 : 17Bit 🔻 [pulse/rev]	
Rated motor speed	: 3000 [min-1]	
Axis Type Selection		
Axis Type : (0) 0 : Finite length as	xis 🔘 1 : Infinite length axis	
Set Infinite length axis		
Please set "Infinite length axis reset pos	ition(POSMAX)".	
Infinite length axis reset position(POSI	MAX): 360000 [pulse]	
t popular		
POSMAX Forward rotation 0		
	Set Cancel	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 23 The display improvement of the Edit Parameter dialog of Ladder editor was carried out.

In Ladder program, when the array registers was used for a command and the edit of the register was carried out by double click, there was a phenomenon in which the comments were not displayed on the Edit Parameter dialog. So, this has been improved.

	H:			
		STORE	[WLFQD]Src ML00000 Imw00020] Comment1	[WLFQD]Dest ML01000 Comment2
Edit Paramete	r	×		
Variable/Register	ML00000[MW00020]			
Comment		~		
	OK	Cancel		

[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 24 The improvement of the Search of Ladder editor was carried out.

In the "Instruction" search of Ladder editor, although the command corresponding to a search condition existed when "NO Contact", "NC Contact", and "Coil" were specified on the "Instruction" and "register" was specified on the "variable", since there was a phenomenon in which it did not hit to search. So, this has been improved.

Search	_		×
Variable Instruction	Comment		
Instruction	A	•	Search
Variable	MB000000	•	Search All
🔲 Output log at Sea	arch 2	Search Direction O Up O Down	Cancel
		Select Range	
		Start Rung 0 🚔	
		End Rung 0 🚔	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 25 The display improvement of Motion Command of Axis Monitor was carried out.

Since there was a phenomenon displayed to be "Reserved" on Motion Command of Axis Monitor, when the responses of Motion Command (IWxx08) were "29: Servo ON", "30: Servo OFF", and "31: Clear Alarm ". So, this has been improved.

Start Axis Monitor H			
Circuit Cir#01 : SVB01 : MECH ▼ Normal speed n			
Cir#01 : SVB01 Axis#01 :SGDV-R70F1			
Ready/Servo Enable	Ready	Disabled	
Alarm/ Warning	No Alarm	No Alarm	
Prof. Comp/ In Position	Prof. Comp	In Position	
Motion Command	29:Reserved		
Machine coordinate feedba	0		
	[pulse]		
Position error (PERR)	0		
[pulse]			
Feedback speed	0		
[1000pulse/min		000pulse/min]	

[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 26 The improvement of saving a project file has been carried out.

When the operation of saving a project file was not completed normally, if the project file was opened again, there was a phenomenon in which the error message was displayed and the project file was not opened.

Error Generating Information
Error code :0xA0A1010A Cannot open the project file.
[CAUSE] 1. The specified project file is read only. 2. The specified project file is stored in read only media. 3. The specified project file has already been opened by other applications. 4. The specified project file has already been opened by way of the network by MPE720 installed in other personal computers. 5. The specified project file has already been opened by other user's MPE720 in the multiuser environment of Windows XP.
[SOLUTION] 1. Please confirm read only of the specified project file, uncheck the attribute of read only and execute again. 2. Please close the project and copy the project file onto media which can be written before edit and save. 3. Please execute again after ending MPE720 which uses the specified project file by way of the network. 5. Please switch the user, and execute again after ending MPE720 which uses the specified project file.
Close

[Sup	port	Version	
Dup	port	VCISION	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 27 The conversion operation to a Ver6 compatible project file (extension: YMW) from the compressed file (extension: MAL) of MPE720 Ver5 has been improved.

When the following conditions were fulfilled, the project file changed into the Ver6 compatible project file (extension: YMW) from the compressed file (extension: MAL) of MPE720 Ver5 was compiled, there was a phenomenon used as a compile error.

[Conditions]

- 1. The compressed file of MPE720 Ver5 is created in new rudder editor mode.
- 2. The symbol is described in the EXPRESSION command.

[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

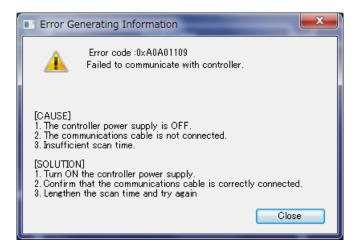
No. 28 The operation Saving of the SVB module of MC-Configurator has been improved. (PART 1)

In Module Configuration (MC-Configurator), if a setup of SVB module is saved in the following operating procedure at a project file and the project file data is written in a controller, since there was a phenomenon it is impossible to carry out online connection to a controller. So, this has been improved.

[Operating procedure]

In the case of example MP2310 controller

- 1. Newly create a project file and start MC-Configurator.
- 2. Open the detailed setting screen of built-in 218IFA module, change an IP address into 192.168.1.2 and save it.
- 3. Assign and save SERVOPACK (SGDV-11A) at the built-in SVB.
- 4. By Transfer function, write System Configuration in a controller and save to flash.
- 5. Carry out online connection to a controller (192.168.1.2) by power supply re-injection.



south the second		
Controller	Support Version	
MP3200 Series	It is not dependent on the version.	
MP2000 Series	It is not dependent on the version.	

No. 29 The operation Saving of the SVB module of MC-Configurator has been improved. (PART 2)

Since there was a phenomenon in which a setup of Transmission Speed and Communication Cycle served as empty, when the SVB module was set up in the following operating procedure. So, this has been improved.

[Operating procedure]

- 1. Newly create a project file.
- 2. Start Module Configuration (MC-Configrator).
- 3. Assign SVB module to the option module.
- 4. Save (project preservation).
- 5. Assign SERVOPACK to SVB module.
- 6. Where SERVOPACK is assigned (edit state), open the detailed setting screen of SVB.

Detail - [MECHATROLINK]	
<u>File E</u> dit <u>V</u> iew	
PT#: CPU#: IC	IR#02 00800-00BFF
Transmission Parameters Link Assign	ment I/O Map Status
Communication Type	MECHATROLINK-II (32 Byte Mode)
Master/Slave	Master 💌
My station address	
Transmission Speed	
Transmission Byte	31Byte
Communication Cycle	_
SigmaWin	Not Used
Number of retry to slaves	1
Number of slaves	0 🗸
Monitor-data update wait-mode	Disable
For Help, press F1	

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 30 The display improvement of the SERVOPACK version of Servo Parameter screen was carried out.

Where online connection is carried out to a controller, when the Servo Parameter screen of the SERVOPACK assigned to the SVB module was opened, there was a phenomenon in which the version information of SERVOPACK was displayed as "0x0000."

_	Modul	e Configuration : [MP2200-04] 🛛 🔠 Serve	/ Servo mo	nitor parameter : [MP2200-()4] - [Servo]×
Fil	e	Servo		Lay	out
	Save to projec	at 🞜 Import 🖉 Export 🕴 🎦 Read È Write	🎦 Read sel	ected 🛃 Write selected 🛛 😑 I	ine up 📳 Servo F.
	•			Circuit#01 Axis#01	
	All	1 2 *	Address	Ver 0x0000	
	All			11/130101	
	Function			🔄 Select All(All)	
	Gain	0000 : Basic Function Select Switch 0	Pn000	0001[H] 🗔	
	Position	0001 : Application Function Select Swit····	Pn001	0000[H]	
		0002 : Application Function Select Swit····	Pn 00 2	0111[H]	
	Speed	❶ 0006 : Application Function Select Swit…	Pn 00 6	0002[H]	
	Torque	⊕ 0007 : Application Function Select Swit…	Pn007	0000[H]	
	Sequence	0008 : Application Function Select Swit····	Pn 00 8	4000[H]	
		O009 : Application Function Select Swit····	Pn 00 9	0010[H]	
	I/O Sign	O00B : Application Function Select Swit⊷	Pn00B	0000[H]	
Ser	Mechatro	❶ 000C : Application Function Select Swit•••	Pn00C	0000[H]	

[Support Version]

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.

No. 31 The improvement of operation at the time of communication disconnection of a communication platform was carried out.

In PC of Windows 7, when communication was impossible with a controller (a cable falls out etc), it had taken by the time it carried out communication timeout. So, this has been improved.

Controller	Support Version
MP3200 Series	It is not dependent on the version.
MP2000 Series	It is not dependent on the version.