

## **Upgrade Information of MPE720 Version6.36**

### **1. Added and Improved Functions**

#### **1.1 Ver.6.35 Upgrade Information**

Items added and features improved from MPE720 version 6.35 to version 6.36 are as follows.

No.	Feature	Classification
1	The MECHATROLINK-III Communications Reference $\Sigma$ -V Series For Use with Large-Capacity Models (SGDV-****2**(Over22kW)) was added	Add function
2	The MECHATROLINK-III INVERTER (1000 Series INVERTER) was added	Add function
3	The mode 4 of the ACCMODE instruction is supported	Improvement
4	Improvement of Conversion of CP ladder	Improvement

(\*1): When MPE720 Ver.6 before MPE720 Ver.6.31 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.3.33.

Please refer to the following page for operating procedures.

## 【About the restriction matter when using MPE720 Ver.6 in Windows Vista and Windows 7】

When MPE720 Ver.6 is used in Windows Vista and Windows 7, the following phenomena might be generated.

### <Phenomena>

When MPE720 Ver.6 before MPE720 Ver.6.31 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.6.33.

### <Measures>

Using a batch file, the following folder is deleted. (\*1)

C:\Users\%UserName(\*2)\AppData\Local\VirtualStore\Program Files\Common Files\YASKAWA\CimScope

### <Procedure>

1.The batch file enclosed by MPE720 Ver.6 installer is copied to a desktop.

#### 【Download Version】

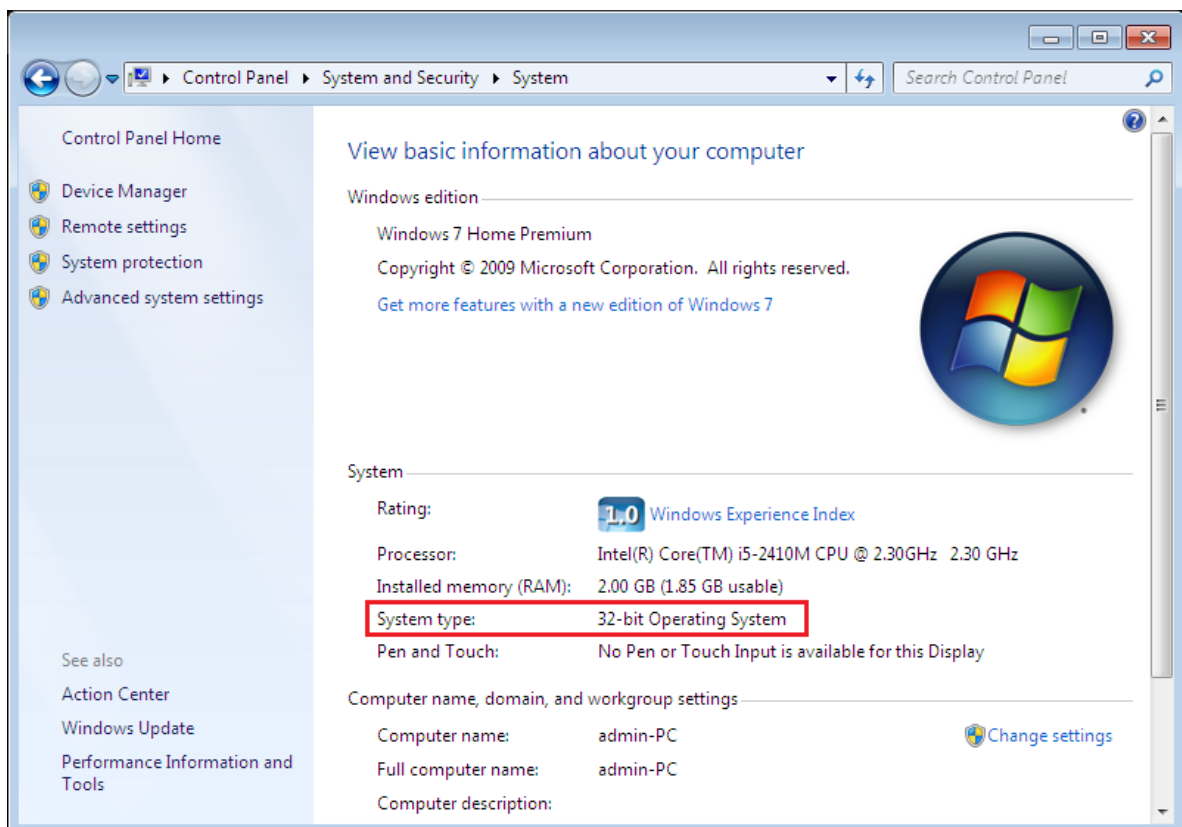
MPE720Ver6\_xxx(\*4)\Tools\Cleanup\32bit\MPE720Ver6\_32bit.bat

#### 【CD Media Version】

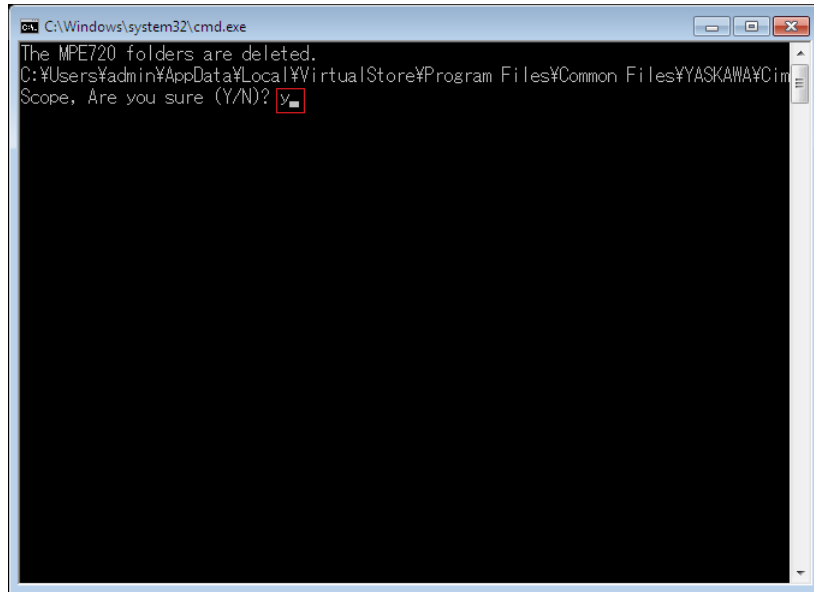
D>(\*5)\Tools\Cleanup\32bit\MPE720Ver6\_32bit.bat

2.The copied batch file is performed.

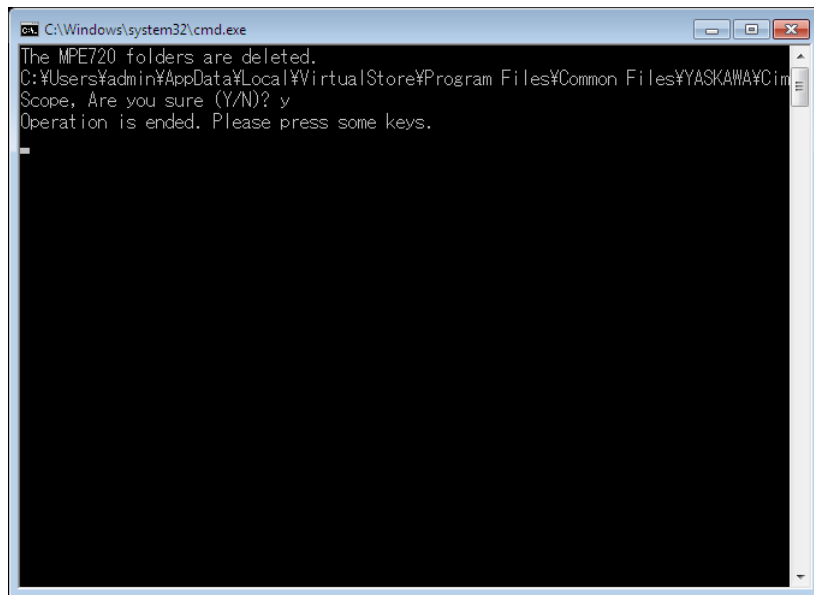
MPE720Ver6\_32bit.bat



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): Since a virtual folder is copied by each user account that uses MPE720 Ver6, please carry out by each user account.

(\*2): The user account name that logs in enters.

(\*3): The path changes by version.

(\*4): The path changes by CD/DVD drive.

(\*5): When an installation folder is changed at the time of MPE720 Ver6 installation, delete a virtual folder manually by the installed path.

## 1.2 Past Upgrade Information

No.	Upgrade information	Remarks
1	<a href="#">MPE720 Version .6.02 upgrade information</a>	Version 6.01->Version .6.02
2	<a href="#">MPE720 Version .6.03 upgrade information</a>	Version 6.02->Version .6.03
3	<a href="#">MPE720 Version .6.04 upgrade information</a>	Version 6.03->Version .6.04
4	<a href="#">MPE720 Version .6.05 upgrade information</a>	Version 6.04->Version .6.05
5	<a href="#">MPE720 Version .6.06/ Version .6.07 upgrade information</a>	Version 6.05->Version .6.06 Version 6.06->Version .6.07
6	<a href="#">MPE720 Version .6.08 upgrade information</a>	Version 6.07->Version .6.08
7	<a href="#">MPE720 Version .6.10 upgrade information</a>	Version 6.08->Version .6.10
8	<a href="#">MPE720 Version .6.20 upgrade information</a>	Version 6.10->Version .6.20
9	<a href="#">MPE720 Version .6.21 upgrade information</a>	Version 6.20->Version .6.21
10	<a href="#">MPE720 Version .6.22 upgrade information</a>	Version 6.21->Version .6.22
11	<a href="#">MPE720 Version .6.23 upgrade information</a>	Version 6.22->Version .6.23
12	<a href="#">MPE720 Version .6.24 upgrade information</a>	Version 6.23->Version .6.24
13	<a href="#">MPE720 Version .6.25 upgrade information</a>	Version 6.24->Version .6.25
14	<a href="#">MPE720 Version .6.26 upgrade information</a>	Version 6.25->Version .6.26
15	<a href="#">MPE720 Version .6.30 upgrade information</a>	Version 6.26->Version .6.30
16	<a href="#">MPE720 Version .6.31 upgrade information</a>	Version 6.30->Version .6.31
17	<a href="#">MPE720 Version .6.33 upgrade information</a>	Version 6.31->Version .6.33
18	<a href="#">MPE720 Version .6.34 upgrade information</a>	Version 6.33->Version .6.34
19	<a href="#">MPE720 Version .6.35 upgrade information</a>	Version 6.34->Version .6.35

## 2. Description

### No.1 The MECHATROLINK-III Communications Reference $\Sigma$ -V Series For Use with Large-Capacity Models (SGDV-\*\*\*\*2\*\*(Over22kW)) was added

#### 1. Module Configuration

In the Module Configuration, it changed so that the MECHATROLINK-III Communications Reference  $\Sigma$ -V Series For Use with Large-Capacity Models (SGDV-\*\*\*\*2\*\*(Over22kW)) could be assigned.

#### 2. Fixed, Setting, Monitor Parameter

The screen for carrying out a detailed setup of Fixed parameters, Setting Parameters and Monitor Parameters of the MECHATROLINK-III Communications Reference  $\Sigma$ -V Series For Use with Large-Capacity Models was added,

#### 3. Servo Parameter, Servo Monitor

The screen for carrying out a detailed setup of Servo Parameter and Servo Monitor of the MECHATROLINK-III Communications Reference  $\Sigma$ -V Series For Use with Large-Capacity Models was added.

The screenshot shows the 'Monitor' tab of the SVC Definition software. The interface includes a title bar 'SVC Definition MP2200-02 MP2200-02 Offline Local', a parameter ID field 'PT#:- CPU#:-', and a configuration area with dropdowns for 'Axis 1', 'SERVOPACK SGDV-\*\*\*\*2\*\*(Over22k)', 'Version 00000000', 'Servo Type Rotary', 'Disp', and 'Vendor Parameter'. Below this is a table with columns for 'No.', 'Name', 'Input Data', 'Unit', and 'Current Value'.

No.	Name	Input Data	Unit	Current Value
0000	Basic Function Select Switch 0	0000 H	-	
0001	Application Function Select Switch 1	0000 H	-	
0002	Application Function Select Switch 2	0011 H	-	
0006	Application Function Select Switch 6	0002 H	-	
0007	Application Function Select Switch 7	0000 H	-	
0008	Application Function Select Switch 8	4000 H	-	
0009	Application Function Select Switch 9	0010 H	-	
000B	Application Function Select Switch B	0000 H	-	
000C	Application Function Select Switch C	0000 H	-	
000D	Application Function Select Switch D	0000 H	-	
0080	Application Function Select Switch 80	0000 H	-	
0081	Application Function Select Switch 81	0000 H	-	
0100	Speed Loop Gain		40.0 Hz	
0101	Speed Loop Integral Time Constant		20.00 ms	
0102	Position Loop Gain		40.0 /s	
0103	Moment of Inertia Ratio		100 %	
0104	2nd Speed Loop Gain		40.0 Hz	
0105	2nd Speed Loop Integral Time Constant		20.00 ms	
0106	2nd Position Loop Gain		40.0 /s	
0109	Feed Forward Gain		0 %	
010A	Feed Forward Filter Time Constant		0.00 ms	
010B	Application Function for Gain Select Switch		0000 H	
010C	Mode Switch (torque/force reference)		200 %	
010D	Mode Switch (speed reference)		0 min-1	
010E	Mode Switch (acceleration)		0 min-1/s	
010F	Mode Switch (position error pulse)		0 User units	
011F	Position Integral Time Constant		0.0 ms	

#### 【 Support Version 】

device	Support Version
MP2000 Series	It is not dependent on the version.
SVC-01	It is not dependent on the version.

## No.2 The MECHATROLINK-III INVERTER (1000 Series INVERTER) was added

1. Module Configuration In the Module Configuration, it changed so that the MECHATROLINK-III INVERTER (1000 Series INVERTER) could be assigned.

### 2. Fixed, Setting, Monitor Parameter

The screen for carrying out a detailed setup of Fixed parameters, Setting Parameters and Monitor Parameters of the MECHATROLINK-III INVERTER was added.

No.	Name	REG	Input Data	Unit	Current Value
0	Run command setting	OW8880	0000 0000 0000 0000	0000 H	
1	Mode Settings 1	OW8881	0000 0000 0000 0000	0000 H	
8	Command	OW8888	No Command ▾	-	
10	Sub Command	OW888A	No Command ▾	-	
12	Output Data Option Selection	OW888C	0000 0000 0000 0000	0000 H	
13	Input Data Option Selection	OW888D	0000 0000 0000 0000	0000 H	
14	Auxiliary Output Data Option Selection	OW888E	0000 0000 0000 0000	0000 H	
15	Auxiliary Input Data Option Selection	OW888F	0000 0000 0000 0000	0000 H	
16	Input Command	OW8890	0000 0000 0000 0000	0000 H	
17	Speed Reference	OW8891	0	Unit in drive	
18	Torque Reference	OW8892	0.0	%	
19	Torque Compensation(option)	OW8893	0.0	%	
20	Analog Output Terminal 1 Output	OW8894	0	10V/4000H	
21	Analog Output Terminal 2 Output	OW8895	0	10V/4000H	
22	Terminal Output	OW8896	0000 0000 0000 0000	0000 H	
23	PID Target	OW8897	0.00	%	
24	Pulse Train Output	OW8898	0	Hz	
25	V/f Gain	OW8899	100.0	%	
27	Command Selection	OW889B	0	-	
50	Inverter Alarm Monitor Number	OW88B2	0	-	
51	Auxiliary Inverter Alarm Monitor Number	OW88B3	0	-	
60	Inverter User Constant Number	OW88BC	0000 H	-	
61	Inverter User Constant Number Size	OW88BD	1	-	
62	Inverter User Constant Set Point 1	OW88BE	0	-	
63	Inverter User Constant Set Point 2	OW88BF	0	-	
64	Inverter User Constant Set Point 3	OW88C0	0	-	
65	Inverter User Constant Set Point 4	OW88C1	0	-	

### 【 Support Version 】

device	Support Version
MP2000 Series	Ver2.84 or later
SVC-01	Ver1.09 or later

### No.3 The mode 4 of the ACCMODE instruction is supported

It supported the mode 4 of the ACCMODE instruction which is speed specification of the next block can be performed in motion program.

Moreover, the following Motion Alarms were added.

#### 1. Range check of ACCMODE instruction

Alarm name :

Address M out of range

Cause of alarm :

Designation exceeded the valid range in the ACCMODE command.

#### 2. Invalid address specification check of ACCMODE

Alarm name :

Specified register error

Cause of alarm :

The address which is not used by setup of ACCMODE was specified in the MVS/MCW/MCC/SKP commands.

#### 【 Support Version 】

device	Support Version
MP2000 Series	Ver2.86 or later

### No.4 Improvement of Conversion of CP ladder

When conversion of CP ladder performed, it was not converted though the error did not occur occasionally.

We fixed it.

#### 【 Support Version 】

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