

From HG2G-5T series and HG2G-V series to HG2J-7U series

Replacement Manual



Revision History

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2. Introduction

2.1 About this document

This document is a manual for replacing the HG2G-5T and HG2G-V series with the HG2J-7U series. Please read this document together with WindO/I-NV4 User's Manual (HG9Y-B1701).

2.2 Acronyms, general terms, and words used in this document

Item	Meaning
MICRO/I	A general term for IDEC operator interface.
WindO/I-NV4	A software for creating operator interfaces for MICRO/I.
External Device	A general term for a device, such as PLC, microcomputer,
	etc., that communicates with MICRO/I.

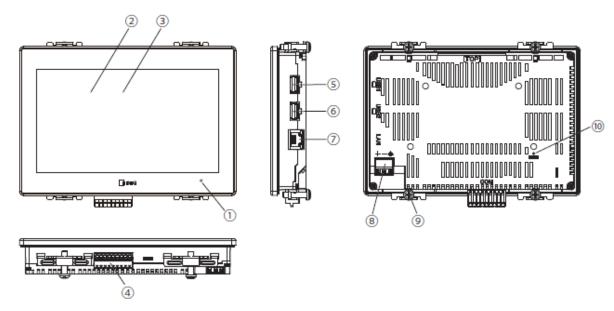
2.3 Replacing with HG2J-7U series

- Please use WindO/I-NV4 Ver. 2.2.0 or later for the HG2J-7U series.
- Due to the hardware replacement, there are restrictions and cautionary notes.
 Please refer to [4.1 Hardware comparison] in this document for more information.
- Click the Change Product Series button on WindO/I-NV4 then select the replacement product from the Change Product Series dialog to convert the product series of the project file. Please refer to [5.1 Converting product series of a project file] in this document for more information.
- · Please test after converting the product series before putting it into operation.

3. Hardware

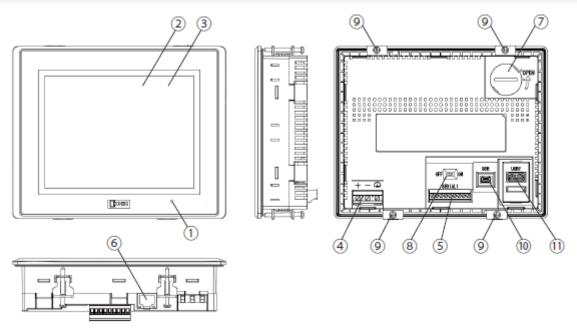
3.1 Appearance

3.1.1 HG2J-7U series (7 inch)



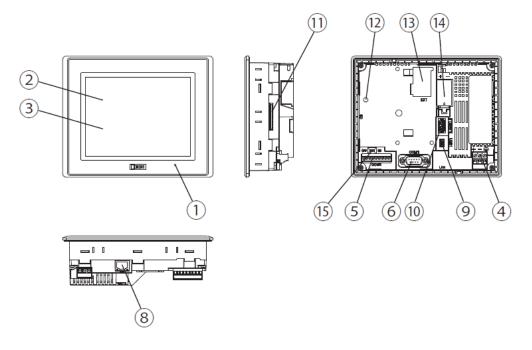
No.	Name
1	POWER LED
2	Display
3	Touch Panel
4	Serial Interface (COM)
5	USB Interface (USB1)
6	USB Interface (USB2)
7	Ethernet Interface (LAN)
8	Power Supply Terminal
9	Mounting Clip Position
10	RESET Switch

3.1.2 HG2G-5T series (5.7 inch)



No.	Name
1	POWER LED
2	Display
3	Touch Panel
4	Power Supply Terminal
5	Serial Interface (SERIAL1)
6	Ethernet Interface (LAN)
7	Battery Cover
8	Terminating Resistor Selector Switch
9	Mounting Clip Position
10	USB Interface (USB)
11)	USB Interface (USB2)

3.1.3 HG2G-V series (5.7 inch)



No.	Name
1	POWER LED
2	Display
3	Touch Panel
4	Power Supply Terminal
5	Serial Interface (COM2)
6	Serial Interface (COM1)
8	Ethernet Interface (LAN)
9	USB Interface (USB1)
10	USB Interface (USB2)
11)	Memory Card Interface (SD)
12	SD Memory Card Access Lamp
13	Expansion Module Interface (EXT)
14)	Battery Cover
15	Terminating Resistor Selector Switch

3.2 MICRO/I Specification

3.2.1 HG2G-5T series and HG2J-7U series comparison table

Туре	Item	HG2G-5T series	HG2J-7U series
Display	LCD Type	HG2G-5TN series:	TFT Color LCD
Specification		TFT Monochrome LCD	(TN Type)
		(TN Type)	
		HG2G-5TT series:	
		TFT Color LCD	
		(TN Type)	
	Effective Display	115.2(W)x86.4(H) mm	154.08(W)x85.92(H) mm
	Area		
	Display	320(W)x240(H) dots	800(W)x480(H) dots
	Resolution		
	Brightness of	HG2G-5TN series:	500 cd/m2 (Typ.) (*1)
	LCD only	1100 cd/m2	
		HG2G-5TT series:	
		500 cd/m2	
	Backlight Life	100,000 Hours	50,000 Hours
Interface	Number of Serial	2 Ports	
Specification	Ports		
	Serial Interface	Detachable Terminal Blo	ck 9-pin
	(COM)	(1ch for RS232C, 1ch	for RS422/485)
	O/I Link	Uses MICRO/I's serial into	erface RS422/485 to
	Communication	communicate	
	Ethernet (LAN)	Supported	
	USB Mini-B	Supported	Not Supported
	(USB1)		
	USB Type A	Not Supported	Supported
	(USB1)		
	USB Type A	Supported	
	(USB2)		

^(*1) Since HG2J-7U series uses a touch panel with a highly transparent cover glass, the apparent brightness is brighter than that of the conventional model.

Туре	Item	HG2G-5T series	HG2J-7U series
Interface	Memory	Not Supported	
Specification	Card		
	Interface		
	(SD)		
	Expansion	Not Supported	
	Module		
	Interface		
	(EXT)		
	Audio	Not Supported	Supported
	Interface		(Supports USB Speaker)
	Video	Not Supported	
	Interface		
General	Rated	DC12V/DC24V	
Specification	Voltage		
	Operating	-20 to +60 °C	
	Temperature		
	External	167.2(W)×134.7(H)×48.6(D)	186.0(W)x128.0(H)x34.3(D)
	Dimension	mm	mm
	Panel cut-	153.0(W)x121.0(H) mm	176.6(W)x118.6(H) mm
	out		

3.2.2 HG2G-V series and HG2J-7U series comparison table

Туре	Item	HG2G-5T series	HG2J-7U series
Display	LCD Type	TFT Color LCD	TFT Color LCD
Specification		(TN Type)	(TN Type)
	Effective Display	115.2(W)x86.4(H) mm	154.08(W)x85.92(H) mm
	Area		
	Display	640(W)x480(H) dots	800(W)x480(H) dots
	Resolution		
	Brightness of	800 cd/m2	500 cd/m2 (Typ.) (*1)
	LCD only		
	Backlight life	100,000 Hours	50,000 Hours
Interface	Number of	3 Ports	2 Ports
Specification	serial ports		
	Serial Interface	D-sub 9 pin (COM1)	-
		(RS232C or S422/485)	
		Detachable Terminal	Detachable Terminal
		Block 9-pin (COM2)	Block 9-pin (COM2)
		(1ch for RS232C,	(1ch for RS232C,
		1ch for RS422/485)	1ch for RS422/485)
	O/I Link	Uses MICRO/I's serial interf	face RS422/485 to
	Communication	communicate	
	Ethernet (LAN)	Supported	
	USB Mini-B	Supported	Not Supported
	USB Type A	Not Supported	Supported
	(USB1)		
	USB Type A	Supported	
	(USB2)		
	Memory Card	Supported	Not Supported
	Interface (SD)		
	Expansion	Supported	Not Supported
	Module		
	Interface (EXT)		

(*1) Since HG2J-7U series uses a touch panel with a highly transparent cover glass, the apparent brightness is brighter than that of the conventional model.

Туре	Item	HG2G-5T series	HG2J-7U series
Interface	Audio	Not Supported	Supported
Specification	Interface		(Supports USB Speaker)
	Video	Not Supported	
	Interface		
General	Rated	DC24V	DC12V/DC24V
Specification	Voltage		
	Operating	-20 to +60 °C	
	Temperature		
	External	167.2(W)x134.7(H)x54.4(D)	186.0(W)x128.0(H)x34.3(D)
	Dimension	mm	mm
	Panel Cut-	153.0(W)x121.0(H) mm	176.6(W)x118.6(H) mm
	out		

4. Compatibility

This chapter briefly goes over important points for converting the product series of the project file. The HG2J-7U series is compatible with the HG2G-5T and HG2G-V series for functions that are not listed below.

4.1 Hardware comparison

4.1.1 Summary

Specification	HG2G-5T, HG2G-V series	HG2J-7U series
External	HG2G-5T series :	186.0(W)×128.0(H)×34.3(D)
Dimension (mm)	167.2(W)×134.7(H)×48.6(D)	
	HG2G-V series :	
	167.2(W)×134.7(H)×54.4(D)	
Panel Cut-Out	153.0(W)x121.0(H) mm	176.6(W)x118.6(H) mm
LCD Size	5.7 inch	7 inch
Screen Size	4:3	16:9
(Aspect Ratio)		
Dot Pitch	1:1	1.076 : 1 (*1)
(Aspect Ratio)		
Touch Panel	Analog Resistive Film	Projected Capacitive (*2)
Adjustment of	Adjustable	No need for adjustment
the Touch Panel		
Power Supply	Screw Fastened Type	Push-in Type
and Serial		
Interface terminal		
Startup Time	3 Seconds	13 Seconds
External Memory	HG2G-5T series:	USB Memory (USB1)
(*3)	USB Memory (USB2)	USB Memory (USB2)
	HG2G-V series :	
	SD Card Slot (SD)	
	USB Memory (USB1)	
Maintenance	USB Mini-B	Ethernet
Communication	Ethernet	

^(*1) Please refer to [5.2.4 Dot Pitch] for details.

^(*2) Please use thin gloves when operating the touch panel with gloves.

^(*3) Please refer to [5.2.9 External Memory Functions] for details.

4.1.2 Backup Data

The backup data is data that will not be erased even after the power is turned off. When the power is turned on, the data before the power shutdown can be used.

Item	HG2G-5T, HG2G-V	HG2J-7U
	series	series
Calendar data retention period	1 year	20 days
(Operating Temperature: 25°C)		(Data is stored in the
		large capacity capacitor)
Log Data, HMI Keep Relays, HMI	1 year	No limit
Keep Resisters retention period		(Data is stored in the
(Operating temperature: 25°C)		non-volatile memory)
Approximate battery	5 years	Does not use the
replacement period		battery
(Operating Temperature: 25°C)		

4.2 Comparison of Functions

4.2.1 Summary

Item	HG2G-5T series	HG2G-V series	HG2J-7U series
Maximum Size	5,439,488 Byte	60,489,728 Byte	25,165,824 Byte
of Project Data	(Approx. 5 MB)	(Approx. 58 MB)	(Approx. 24 MB)
Pre-Loaded	Supported	Supported	Supported (*1)
Fonts			
Button Parts	Supported	Supported	Does not support
			Selector Switch
			Potentiometer
Drawing	Supported	Supported	Does not support
Objects			• Fill
BACnet	Not Supported	Supported	Not Supported
Communication			
Printer	Not Supported	Supported	Not Supported
Connection			
Expansion	Not Supported	Supported	Not Supported
Modules			
Formatting of	Supported	Supported	Not Supported (*2)
the External			
Memory			

^(*1) The following changes have been made.

[•] Size is set by using point

^{• &}quot;16x16", "Bold", and "Shadow" are not supported

^(*2) Please use the format function of your computer. The external memory formatted with the conventional models can be used as well. The formatting function for the conventional models can be used from the **Online** tab.

4.2.2 Maximum amount of data storage for each log functions

Function	HG2G-5T series	HG2G-V series	HG2J-7U series
Alarm Log	5520	11660	5520
Operation Log	3945	8330	3945
Data Log per	13808	29165	13808
Device Address			

The amount of data storage can be set in the **Data Storage Area Management** dialog box of WindO/I-NV4. Since the data storage area is shared among the log functions, not all log data can be set to their maximum.

5. Converting product series of a project file and afterward adjustments

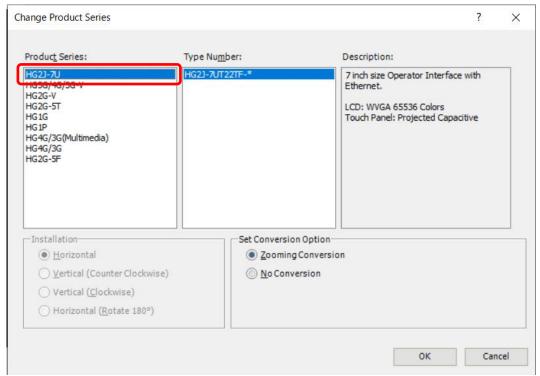
5.1 Converting product series of a project file

[Procedures]

- 1. Be sure to take a backup of the project file.
- 2. Launch WindO/I-NV4 with Ver. 2.2.0 or later.
- 3. Open the project file. (If the project file is not found, then please upload the file from MICRO/I.)
- 4. Click on the **Change Product Series** on the status bar, which is at the bottom of the WindO/I-NV4 window.



5. Select the "HG2J-7U" from the Product Series list.



6. Click the "OK" button.

5.2 Afterward adjustments

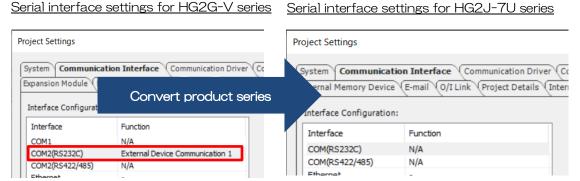
5.2.1 Serial port

[Summary]

When a project file with the interface setting on the serial port COM2 (RS232C) is converted from HG2G-V series to HG2J-7U series, the COM2 (RS232C) settings are deleted. This triggers the deletion of both communication driver settings specified for COM2 (RS232C) and the corresponding device address in the project file.

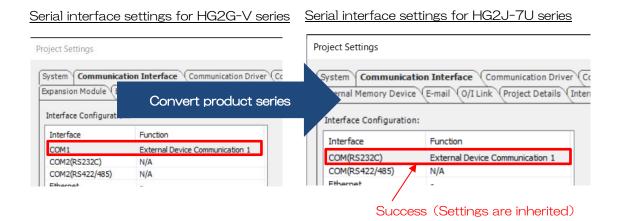
To inherit the COM2 (RS232C) settings, move the COM2 (RS232C) settings to COM1 before converting the product series of a project file.

Example of COM2 (RS232C) settings not being inherited (COM2 setting was not moved to COM1 before the conversion)



Fail (Settings are deleted)

Example of COM2 (RS232C) settings being inherited (COM2 settings was moved to COM1 before the conversion)

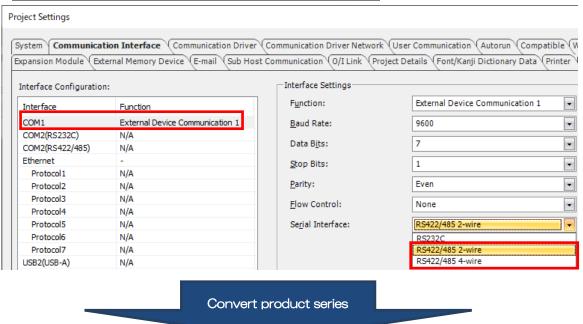


[Important Note]

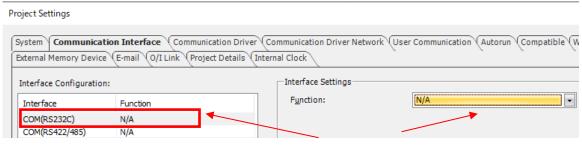
<Detail>

Assume a user moved COM2 (RS232C) settings to COM1 before the product series conversion to inherit COM2 (RS232C) settings of HG2G-V series to HG2J-7U series. If "RS422/485 2-wire" or "RS422/485 4-wire" is selected for the Serial Interface setting in COM1 of the Communication Interface tab, which is in the Project Settings dialog, the corresponding settings will be deleted once the product series of the project file is converted.

HG2G-V series Communication Interface settings



HG2J-7U series Communication Interface settings

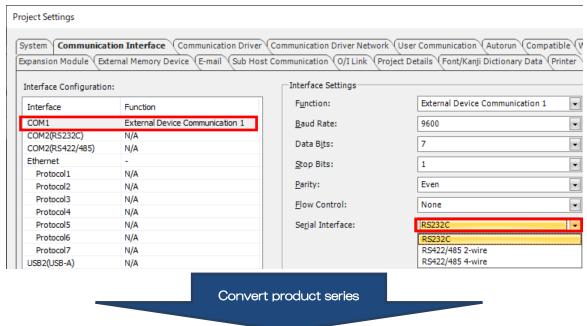


Settings are deleted (Not Inherited)

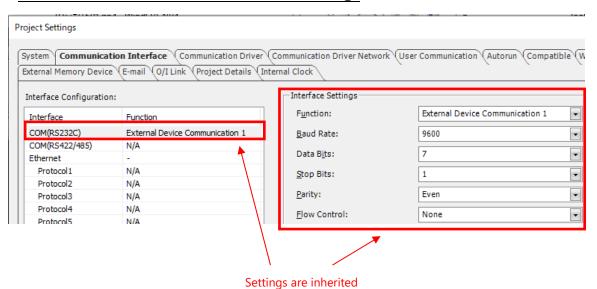
Solution

Select "RS232C" for the **Serial Interface** setting in the **Interface Settings** of **COM1**.

HG2G-V series Communication Interface settings



HG2J-7U series Communication Interface settings

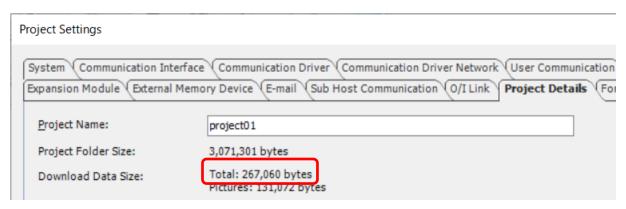


5.2.2 Project Data Size

[Summary]

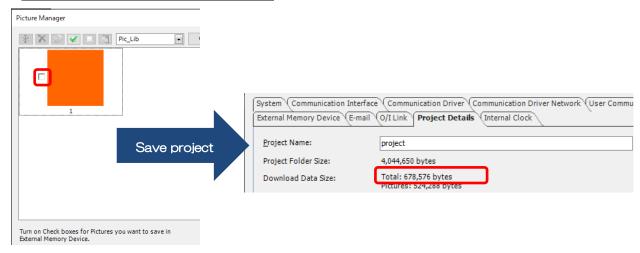
When a project file for the HG2G-V series is converted to the HG2J-7U series, the project data size of the HG2J-7U series may exceed the maximum size. If the size of the project data exceeds the maximum size, it cannot be downloaded to the HG2J-7U series. Therefore, the size of the project data must be adjusted before the download. Please make adjustments such as saving the image file to the external memory to reduce and keep the project data size under the limit.

The size of the project data can be checked from the **Project Details** tab of the **Project Settings** dialog box.

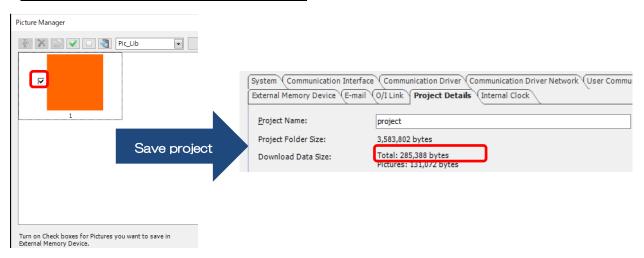


(Example) Save the image data registered in the **Picture Manager** to external memory to reduce the size of the project.

Saving image data to the Project file



Saving image data to the external memory



5.2.3 Screen Size

[Summary]

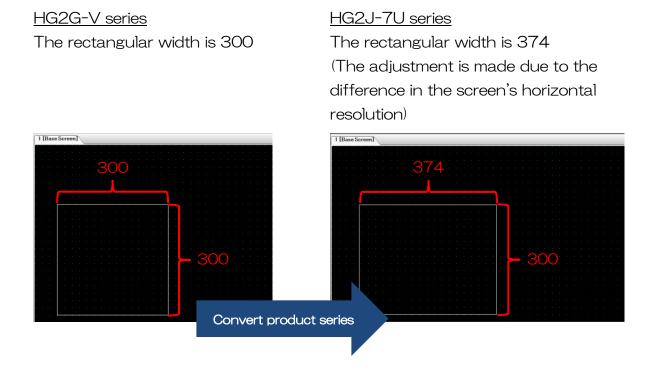
The HG2J-7U series screen size (aspect ratio) is different from that of the HG2G-5T and HG2G-V series. When the project file's product series is converted, the size of each drawing and part is automatically converted to the HG2J-7U series screen size.

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Screen Size	4:3	16:9
(aspect ratio)		

(Example) Rectangle (drawing) size conversion

Assume the followings:

- HG2G-V series project file is used for conversion
- HG2J-7U series project file is the target product series of the conversion
- The value of the "Width" and "Height" of the rectangle is set to 300
- "Zooming Conversion" is selected for the Set Conversion Option



5.2.4 Dot Pitch

[Summary]

The HG2J-7U series dot pitch (aspect ratio) is different from that of the HG2G-5T and HG2G-V series. Download the project file to MICRO/I and check the display for its appearance.

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Dot Pitch	1:1	1.076:1
(aspect ratio)		

[Important Note]

<Detail>

The HG2J-7U series dot pitch width is slightly longer than that of the HG2G-5T and HG2G-V series, so the width of parts and drawings appear longer.

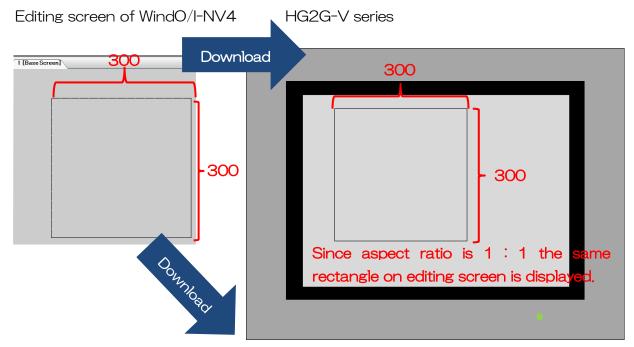
Solution

Adjust the width of the target parts or drawings on WindO/I-NV4 edit screen. Then download the project file to the HG2J-7U series and check the width. The dot pitch is not "1.076: 1" on WindO/I-NV4 edit screen, so be sure to download and check the appearance on the MICRO/I.

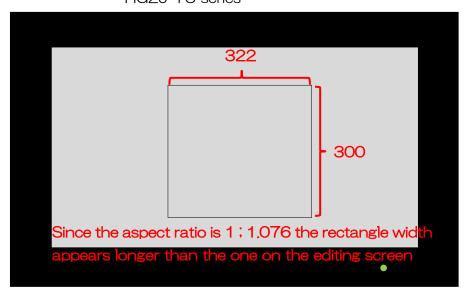
(Example) Display square with rectangular drawing.

Assume the followings:

- HG2G-V series project file is used for conversion
- HG2J-7U series project file is the target product series of the conversion
- The value of the "Width" and "Height" of the rectangle is set to 300
- "No Conversion" is selected for the **Set Conversion Option**



HG2J-7U series



To display a square on the HG2J-7U series, the user must set the width to 279. $(300 / 1.076 \approx 279)$

5.2.5 Startup time

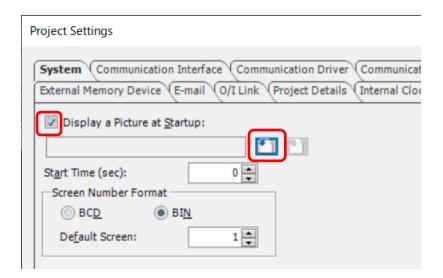
[Summary]

The HG2J-7U series has a longer startup time than the HG2G-5T and HG2G-V series.

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Startup Time	3 seconds	13 seconds

Please design the application system so that there will not be a problem even if the startup of the display is delayed by 10 seconds. The black screen is displayed by default during the startup. Users may display an alternative image by using the "Display a Picture at Startup" function.

"Display a Picture at Startup" can be found in the **System** tab of the **Project Settings** dialog box in WindO/I-NV4. Please set the checkbox to ON and import the image of choice to be displayed.



[Restriction]

The maximum image size that can be used is 800×480 dots and 1,160,000 bytes.

5.2.6 Pre-Loaded Fonts

[Summary]

The pre-loaded font's settings of the HG2J-7U series are different from those of the HG2G-5T and HG2G-V series. Please modify the project file so that the font size becomes appropriate.

Pre-loaded Fonts	HG2G-5T, HG2G-V series	HG2J-7U series
settings		
Size	Magnification	Point
Line Spacing	Not Supported	Supported (*1)
Adjustment		
Stroke (*2)	Supported	Not Supported
Size: 16x16 (*3)	Supported	Not Supported
Bold	Supported	Not Supported
Shadow	Supported	Not Supported

^(*1) The line spacing is automatically adjusted to match the narrower line spacing of HG2G-5T series when converting product series to HG2J-7U series. Manual adjustment is also possible after the conversion.

^(*2) If the "Stroke" font is used in the project file and the project file gets converted to HG2J-7U series, then the font gets replaced with the pre-loaded font "Western".

 $^{(*3)\ ^{&#}x27;'}16x16\ ^{''}$ can only be set on the following parts of the HG2G-5T and HG2G-V series:

Numerical Input

Character Input

Numerical Display

Calendar

(Example 1) Magnification and Point

Following is an example of converting the product series of a project file. The project file uses pre-loaded fonts and uses "Magnification" and "Point" for their size setting.

Before converting product series	After converting product series	
(HG2G-5T, HG2G-V series)	(HG2J-7U series)	
Text Part 1	Text Part 1	
Font: Japanese, Magnification: 2x2	Font : Japanese, Size : 21	
Text Part 2	Text Part 2	
Font : Stroke, Size : 20	Font : Western, Size : 27	
(Image on the editing screen)		
こんにちは Hello	こんにちは Hello	

(Example 2) Space between lines

Following is an example of converting the product series of a project file. The project file has multiple lines of text that use the pre-loaded font.

Before converting product series	After converting product series	
(HG2G-5T, HG2G-V series)	(HG2J-7U series)	
Text Part 1	Text Part 1	
Font : Simplified Chinese, 3 lines of	Font : Simplified Chinese, 3 lines of	
text strings	text strings	
(Image on the editing screen)		
こんにちは Hello 你好	こんにちは Hello 你好	

After converting the product series of a project file, manual adjustment of the text line spacing can be made from the **Properties** dialog of the Drawings and Parts.

When the line spacing setting is "-5"



When the line spacing setting is "-10"



(Example 3) Size: 16x16, Bold, Shadow

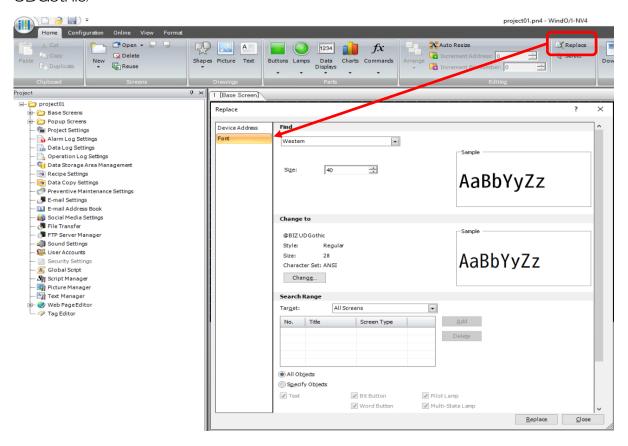
Following is an example of converting the product series of a project file. The project file uses "16x16", "Bold", and "Shadow" for the text.

Before converting product series	After converting product series	
(HG2G-5T, HG2G-V series)	(HG2J-7U series)	
Calendar Part 1	Calendar Part 1	
Font : Japanese, Size : 16x16	Font : Japanese, Size : 11	
Text Part 2	Text Part 2	
Font : Japanese, Style : Bold	Font: Japanese	
Text Part 3	Text Part 3	
Font : Western, Style : Shadow,	Font : Western	
Shadow Color : 20 (Red)		
(Image on the editing screen)		
2022/07/01		
20,22/,0,1/,01	2022/07/01	
こんばんは	こんばんは	
~/ V+&/ V+&		
	Cool Francisco	
Good Evening	Good Evening	

5.2.6.1. Font Size Adjustment

By using the font replacement function, fonts can be replaced with the Windows font in a batch.

(Example) Replacing the pre-loaded font (Western) with a Windows font (@BIZ UDGothic)

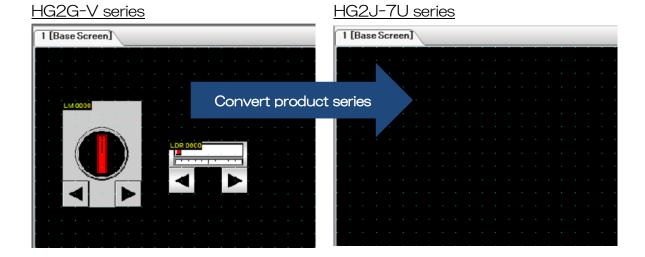


5.2.7 Selector Switch and Potentiometer

[Summary]

"Selector Switch" and "Potentiometer" are not available for the HG2J-7U series. Selector Switch and Potentiometer are deleted when the project file is converted to the HG2J-7U series.

Please recreate a similar part by combining parts.

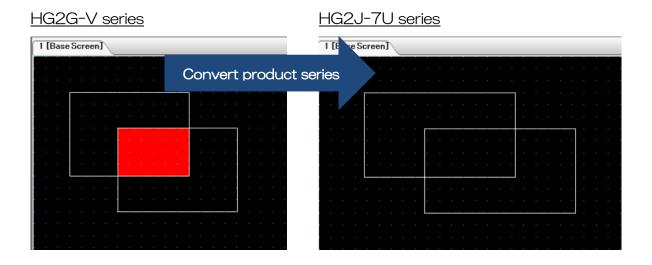


5.2.8 "Fill" drawing

[Summary]

The "Fill" drawing is not available for the HG2J-7U series. "Fill" drawings are deleted when the project file is converted to the HG2J-7U series.

Please recreate a similar part by combining basic shapes.

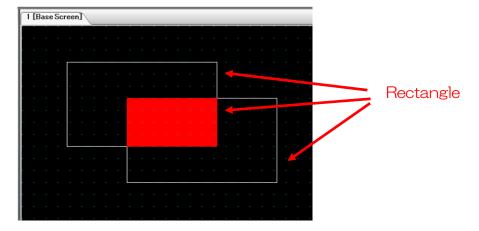


(Example 1) Change the color of the overlapping rectangle area to "red"

Open **Properties of Rectangle** dialog box, and set the followings. Then adjust the size and place it on the overlapping area.

• Foreground Color: 020 (Red)

• Pattern: Fore 100%



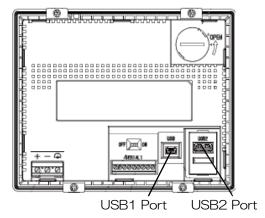
5.2.9 External Memory Functions

[Summary]

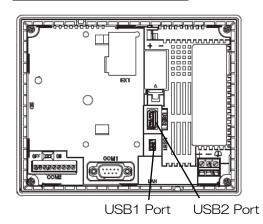
The SD card slot is not supported for the HG2J-7U series. If an SD card was used for the HG2G-V series or a USB memory was used for the HG2G-5T series, please insert a USB memory into the USB1 port of the HG2J-7U series to use the external memory function.

External Memory	HG2G-V series	HG2G-5T series	HG2J-7U series
SD Card Slot	Supported	Not Supported	Not Supported
USB Port	Supported (*1)	Supported	Supported (*2)

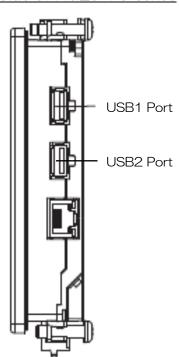
Back of HG2G-5T series



Back of HG2G-V series



Side of HG2J-7U series



^(*1) If the USB2 port of the HG2G-V series was used, insert a USB memory into the USB2 port of the HG2J-7U series.

^(*2) For information on the external memory functions supported by the USB1 port, please refer to "WindO/I-NV4 User's Manual Chapter 31 External Memory Devices 1.2 What Can Be Done Using an External Memory Device".

5.2.10 External Memory File Names

[Summary]

In the HG2J-7U series, file names and folder names cannot contain double-byte characters or the following characters. Therefore, when a product series of the project is converted to the HG2J-7U series, the file name and folder name settings may be deleted or changed. Please set the file and folder names used in the project file again.

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Restricted	"*/:<>?¥	"#\$&'()*/:;<>?\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Characters		Two consecutive periods

<Handling of unavailable characters when converting product series>
If HG2G-5T or HG2G-V series project file contains file or folder names with characters that cannot be used in the HG2J-7U series, the project file is processed in the following ways.

- 1) The path becomes blank
- 2 The file or folder name changes to a default value
- 3 The file name becomes "Picture*" (* is a number that does not overlap with other images).
- The name changes to the strings set on the External Memory Device Folder setting in the External Memory Device tab of the Project Settings dialog box.
- 6 No change is made. However, the download is not possible without deleting unavailable characters.

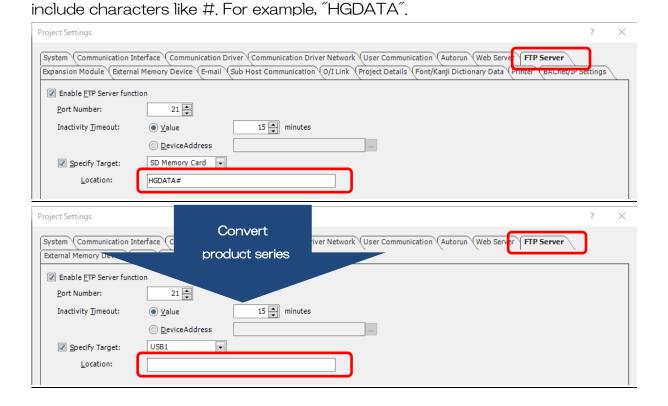
Dialog Box	Tab	Parts	Change
Project Settings	FTP Server	Enable FTP Server function	1
		-> Location	
	External	External Memory Device Folder	2
	Memory Device		
Alarm Log	External	Batch -> File Name	2
Settings	Memory Device	Real Time -> File Name	2
Operation Log	External	Batch -> File Name	2
Settings	Memory Device	Real Time -> File Name	2

Dialog Box	Tab	Parts	Change
Data Log Settings	External	Batch -> File Name	2
	Memory Device	Real Time -> File Name	2
		Real Time -> Save the Data	2
		Log data and display it on Line	
		Chart or Data Log Display	
Recipe Settings	Block	File Name	2
Picture Manager	-	File Name	3
File Transfer	General	Source -> Location -> Fixed	4
		Destination -> Location ->	4
		Fixed	
Key Button	General	Download Project	4
		Source -> Location	
		Upload Project	4
		Destination -> Location	
		Download PLC Program	4
		Source -> Location	
		Upload PLC Program	4
		Destination -> Location	
		Copy Files	4
		Source -> Location	
		Copy Files	4
		Destination -> Location	
Web Page Editor	_	File Name of the .page File	6
		File Name in the "image",	5
		"lamp", "switch", and "video"	
		Folders	

(Example) FTP Server access destination

If "HGDATA#" was set for the Location in the FTP Server tab of the Project

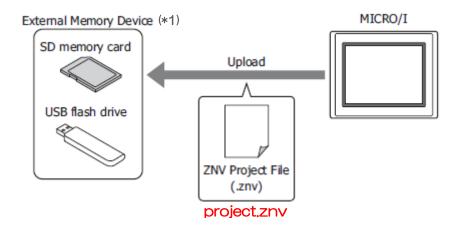
Settings dialog box, the folder path is cleared when the product series is converted to the HG2J-7U series. Please reassign character strings that do not



5.2.11 Project File Name in External Memory

[Summary]

When MICRO/I project data is uploaded to external memory using the data transfer function of the Key Button (including Multi-Button and Multi-Command) or USB Autorun, the project file name becomes project.znv.



Item	HG2G-5T, HG2G-V series	HG2J-7U series
Project File Name	project name + .znv	project.znv (*2)

^(*1) HG2J-7U series is USB memory only.

^(*2) When uploading a project file to the computer using WindO/I-NV4 or Data File Manager, the project name becomes "project name" + .znv.

5.2.12 User Name for Security

[Summary]

In the HG2J-7U series, it is not possible to set "#" as the first character of "User Name" in the **General** tab of the **Security** dialog. When a project file is converted to the HG2J-7U series, all leading "#" characters will be deleted. The "#" at other positions will not be changed.

If "#" is used as the leading letter(s) of the user name, please check for the change that was made to the user name after the product series conversion.

(Example) Converting an HG2G-5T series project with a user name that contains "#" to the HG2J-7U series project file.

HG2G-5T series



HG2J-7U series



5.2.13 Communication Driver

[Summary]

When a project file that uses a communication driver for HG2G-5T or HG2G-V series is converted to HG2J-7U series, the settings of the communication driver not supported by HG2J-7U series are deleted. If the project file uses a communication driver that is not supported by the HG2J-7U series, please consider using a different communication driver before converting the product series.

Please refer to the "WindO/I-NV4 External Device Setup Manual" for the latest information.

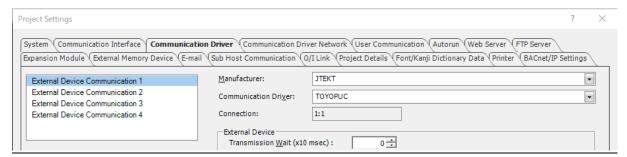
Manufacturer	HG2G-5T, HG2G-V series	HG2J-7U series
IDEC	Supported	Supported (*1)
DM Link	Supported	Supported
Modbus	Supported	Supported
Mitsubishi Electric	Supported	Supported
OMRON	Supported	Supported
Shibaura-Machine	Supported	Supported
Allen-Bradley	Supported	Supported
ABB	Supported	Supported
JTEKT	Supported	Not Supported
SIEMENS	Supported	Supported
Keyence	Supported	Supported
Hitachi	Supported	Not Supported
Hitachi Industrial	Supported	Not Supported
Equipment Systems		
GE Fanuc Automation	Supported	Not Supported
Panasonic	Supported	Supported
YASKAWA Electric	Supported	Supported
KOYO ELECTRONICS	Supported	Not Supported
INDUSTRIES		
FANUC	Supported	Not Supported
Yokogawa Electric	Supported	Not Supported
Fuji Electric	Supported	Supported (*2)
Toshiba	Supported	Not Supported
LSIS	Supported	Not Supported
Vigor Electric	Supported	Not Supported
Emerson Electric	Supported	Not Supported

 $^{(\}ast 1)$ HG2J-7U series supports only FC6A and FT1A.

^(*2) HG2J-7U series supports only MICREX-SX and MICREX-SX(Ethernet).

(Example) When JTEKT's communication driver is used in the HG2G-V series and the project file is converted to the HG2J-7U series

Communication driver settings for HG2G-V series



Communication driver settings for HG2J-7U series

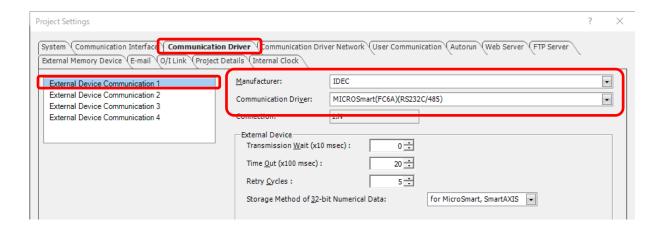


5.2.14 Sub host Communication

[Summary]

Sub host communication is not available for the HG2J-7U series. Please communicate with external devices using one of External Device Communication 1 through 4 in the communication driver.

Communication driver settings can be modified from the **Communication Driver** tab of the **Project Settings** dialog box. Select one of External Device Communication 1 to 4 and set the manufacturer and communication driver.



5.2.15 Multi Muster of SIEMENS PPI Driver

[Summary]

SIEMENS PPI communication is limited to 1:1 communication.

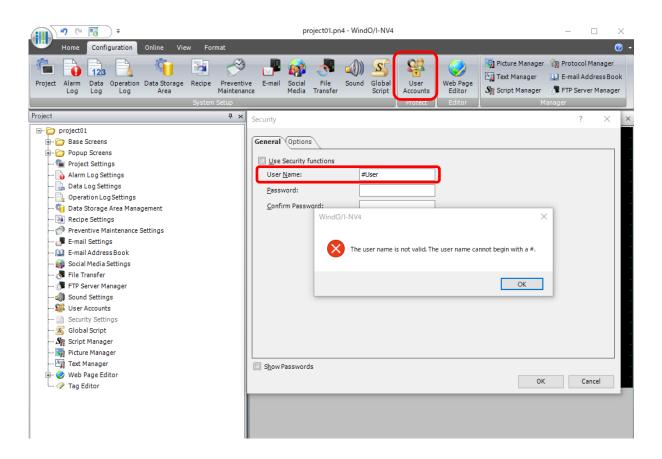
Communication Driver	HG2G-5T, HG2G-V series	HG2J-7U series
PPI Communication	N:1 Communication	1:1 Communication
	(N HMI, 1 PLC)	(1 HMI, 1 PLC)

5.2.16 User Name When Using FTP Server Function

[Summary]

Do not set # as the prefix of the user name in the HG2J-7U series. If the user name starts with #, the MICRO/I FTP server cannot be accessed.

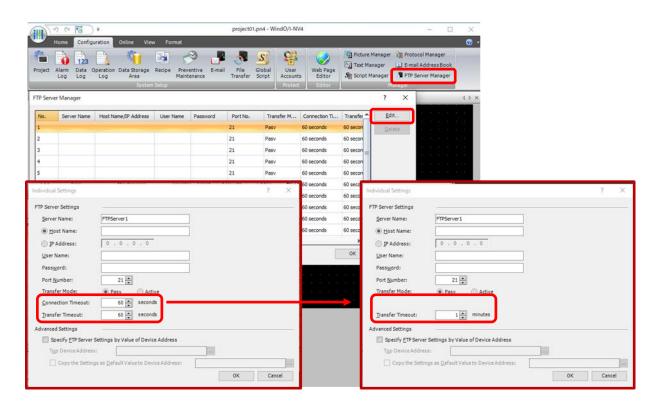
The user name of MICRO/I can be reassigned from the **Security** dialog under **User Accounts**.



5.2.17 Timeout of FTP Communication

[Summary]

The connection timeout and transfer timeout for the FTP communication has been changed. If FTP communication does not work, please review the communication settings of MICRO/I or the communicating partner device.



Connection timeout setting

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Connection Timeout	10 - 300 seconds	10 seconds (*1)

Transfer timeout setting

Item	HG2G-5T, HG2G-V series	HG2J-7U series
Transfer Timeout	10 - 300 seconds	1 - 60 minutes

^(*1) Connection timeout cannot be changed for the HG2J-7U series.

[Important Note]

<Detail>

When a product series of a project is converted, the transfer timeout value is rounded up.

Before converting product series	After converting product series
(HG2G-5T, HG2G-V series)	(HG2J-7U series)
10 - 60 seconds	1 minute
61 - 120 seconds	2 minutes
121 - 180 seconds	3 minutes

<Solution>

If necessary, please reassign the transfer timeout.

5.3 Download Project File

[Summary]

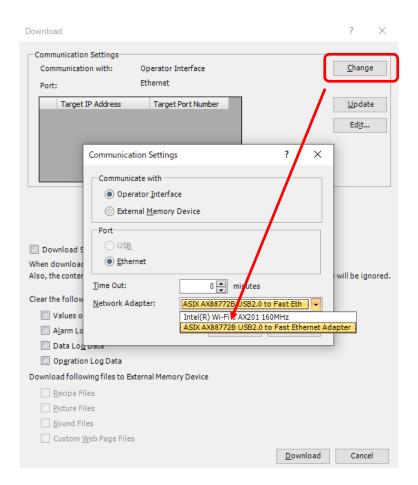
The HG2J-7U series does not have a USB-B port. Please use Ethernet instead for the download. The HG2J-7U series IP address can be found by using the IP search function of the WindO/I-NV4.

[Procedures]

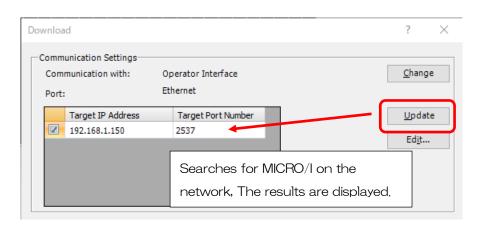
- 1. Connect MICRO/I to the computer with an Ethernet cable.
- 2. From the WindO/I-NV4 ribbon select **Online**. Then click the **Download** button to open the **Download** dialog.
- 3. From the **Network Adapter** in the **Communication Settings** dialog box, select the network adapter for the communication.

The network adapter can be checked in Windows at the following location.

Control Panel > Network and Sharing Center > Change adapter settings.



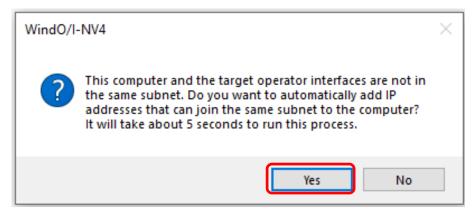
4. Press "OK" to return to the **Download** dialog and press the "Update" button.



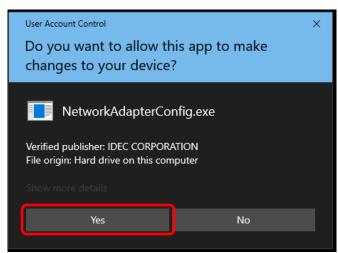
5. Make sure the check box for the download target's **Destination IP address** is ON. Then click the "Download" button to proceed download.

Steps 6 and later steps are for cases where the IP addresses of the computer and the MICRO/I do not exist in the same subnet when the "Download" button is clicked. If the IP addresses of the computer and the MICRO/I exist on the same subnet, the download will start. (The check box is OFF in the default configuration.)

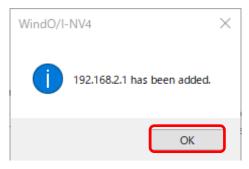
6. Press "Yes" when the following dialog box.



7. When User Account Control dialog box is displayed, press "Yes".



8. Finally, the added IP address is displayed. Press "OK" to start the download.



[Restriction]

The HG2J-7U series has a USB-A port, but it cannot be used for downloading.

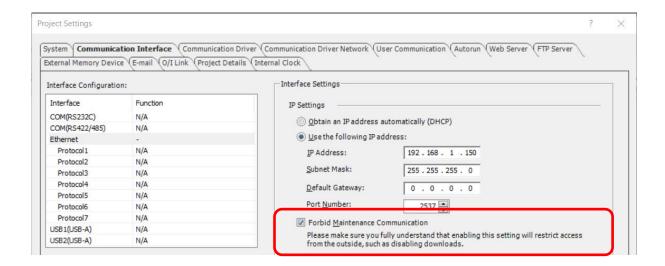
[Important Note]

<Detail>

If the Forbid Maintenance Communication check box in the Interface Settings, which is located under Ethernet of the Communication Interface tab in the Project Settings dialog, is ON, the user cannot download. (The default setting for the check box is OFF.)

Solution

Change the check box to OFF and save the project file. Download the project file with MICRO/I in boot mode.

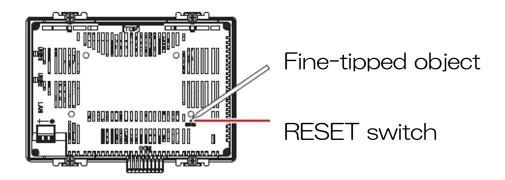


Downloading project file in boot mode

If the project file download does not work, please try downloading the project file in boot mode.

[Procedures]

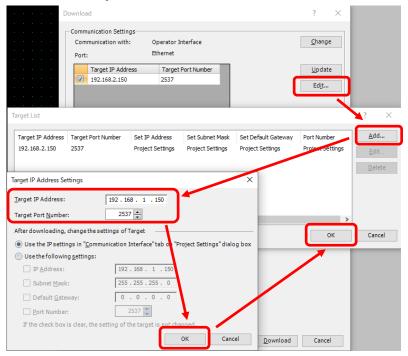
1. Press the RESET switch on the back of the HG2J-7U series with a fine-tipped object for more than 3 seconds.



2. The buzzer consecutively beeps 5 times with the last one beeping the longest of all. The LED on the bottom of the screen turns orange and the screen changes to the boot mode screen.



- 3. Download project using WindO/I-NV4.
 - Since the MICRO/I in the boot mode cannot be searched using the IP address search function, the user needs to set 192.168.1.150 (IP address) and 2537 (port number) that are displayed on the screen of MICRO/I.
 - To download a project file to the MICRO/I in boot mode, the computer and MICRO/I must be directly connected via Ethernet cable.



<MEMO>



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Specifications and other descriptions in this manual are subject to change without notice. Information in this manual is current as of February, 2023.

B-2378(1)

