

YRC1000 OPTIONS INSTRUCTIONS

FOR SOFTWARE PENDANT

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

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS

YRC1000 INSTRUCTIONS

YRC1000 OPERATOR'S MANUAL (GENERAL) (SUBJECT SPECIFIC)

YRC1000 MAINTENANCE MANUAL

YRC1000 ALARM CODES (MAJOR ALARMS) (MINOR ALARMS)

The YRC1000 operator's manual above corresponds to specific usage. Be sure to use the appropriate manual.

The YRC1000 operator's manual above consists of "GENERAL" and "SUBJECT SPECIFIC".

The YRC1000 alarm codes above consists of "MAJOR ALARMS" and "MINOR ALARMS".



DANGER

- This manual explains the software pendant of the YRC1000 system. Read this manual carefully and be sure to understand its contents before handling the YRC1000. Any matter not described in this manual must be regarded as “prohibited” or “improper”.
- General information related to safety are described in “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS. To ensure correct and safe operation, carefully read “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS.



CAUTION

- In some drawings in this manual, protective covers or shields are removed to show details. Make sure that all the covers or shields are installed in place before operating this product.
- YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids the product warranty.

NOTICE

- The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.
- YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.
- If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. The representatives are listed on the back cover. Be sure to tell the representative the manual number listed on the front cover.

Notes for Safe Operation

Read this manual carefully before installation, operation, maintenance, or inspection of the YRC1000.

In this manual, the Notes for Safe Operation are classified as “DANGER”, “WARNING”, “CAUTION”, or “NOTICE”.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Safety Signs identified by the signal word DANGER should be used sparingly and only for those situations presenting the most serious hazards.



WARNING

Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury. Hazards identified by the signal word WARNING present a lesser degree of risk of injury or death than those identified by the signal word DANGER.



CAUTION

Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury. It may also be used without the safety alert symbol as an alternative to “NOTICE”.

NOTICE

NOTICE is the preferred signal word to address practices not related to personal injury. The safety alert symbol should not be used with this signal word. As an alternative to “NOTICE”, the word “CAUTION” without the safety alert symbol may be used to indicate a message not related to personal injury.

Even items described as “CAUTION” may result in a serious accident in some situations.

At any rate, be sure to follow these important items.



To ensure safe and efficient operation at all times, be sure to follow all instructions, even if not designated as “DANGER”, “WARNING” and “CAUTION”.



DANGER

- Before using the software pendant, the user must supply the emergency stop button.
- Before operating the manipulator, make sure the servo power is turned OFF by performing the following operations. When the servo power is turned OFF, the SERVO ON LED on the programming pendant is turned OFF.
 - Press the emergency stop buttons on the front door of the YRC1000, on the programming pendant, on the external control device, etc.
 - Disconnect the safety plug of the safety fence. (when in the play mode or in the remote mode)

If operation of the manipulator cannot be stopped in an emergency, personal injury and/or equipment damage may result.

Fig. : Emergency Stop Button



- Before releasing the emergency stop, make sure to remove the obstacle or error caused the emergency stop, if any, and then turn the servo power ON.

Failure to observe this instruction may cause unintended movement of the manipulator, which may result in personal injury.

Fig. : Release of Emergency Stop



- Observe the following precautions when performing a teaching operation within the manipulator's operating range:
 - Be sure to perform lockout by putting a lockout device on the safety fence when going into the area enclosed by the safety fence. In addition, the operator of the teaching operation must display the sign that the operation is being performed so that no other person closes the safety fence.
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Always keep in mind emergency response measures against the manipulator's unexpected movement toward a person.
 - Ensure a safe place to retreat in case of emergency.

Failure to observe this instruction may cause improper or unintended movement of the manipulator, which may result in personal injury.

- Confirm that no person is present in the manipulator's operating range and that the operator is in a safe location before:
 - Turning ON the YRC1000 power
 - Moving the manipulator by using the programming pendant
 - Running the system in the check mode
 - Performing automatic operations

Personal injury may result if a person enters the manipulator's operating range during operation. Immediately press an emergency stop button whenever there is a problem. The emergency stop buttons are located on the front panel of the YRC1000 and on the right of the programming pendant.

- Read and understand the Explanation of the Warning Labels before operating the manipulator.



WARNING

- Perform the following inspection procedures prior to conducting manipulator teaching. If there is any problem, immediately take necessary steps to solve it, such as maintenance and repair.
 - Check for a problem in manipulator movement.
 - Check for damage to insulation and sheathing of external wires.
- Always return the programming pendant to the hook on the YRC1000 cabinet after use.

If the programming pendant is left unattended on the manipulator, on a fixture, or on the floor, etc., the Enable Switch may be activated due to surface irregularities of where it is left, and the servo power may be turned ON. In addition, in case the operation of the manipulator starts, the manipulator or the tool may hit the programming pendant left unattended, which may result in personal injury and/or equipment damage.

- If communication between the software pendant and the YRC1000 is interrupted, the operation cannot be performed from the software pendant.

After the interruption of communication with the software pendant, the YRC1000 enters into the following conditions:

- Mode: The mode is retained when the interruption of communication occurs.
- Emergency stop signal of the software pendant: Released
- HOLD signal of the software pendant: Released
- The pendant switches cannot be operated while the character input field, CHANGE FONT, CHANGE BUTTON, or CHANGE WINDOW PATTERN window, or a warning dialog box is displayed. Be sure to close the window and dialog box before operating the pendant switches.

Definition of Terms Used Often in This Manual

The MOTOMAN is the YASKAWA industrial robot product.

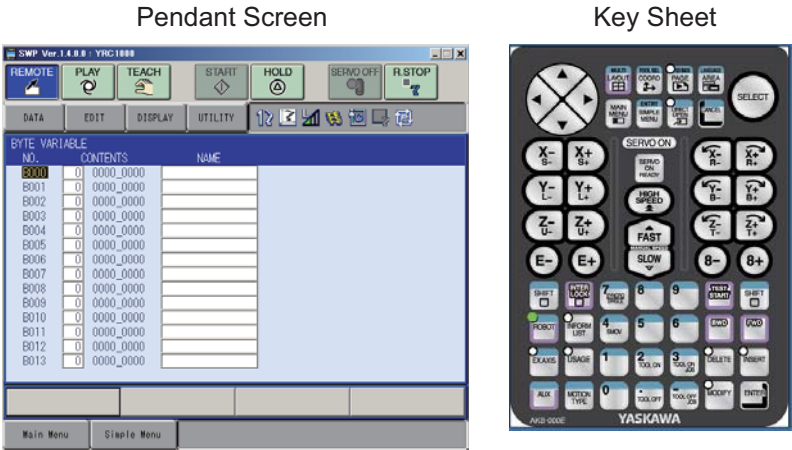
The MOTOMAN usually consists of the manipulator, the controller, the programming pendant, and supply cables.

In this manual, the equipment is designated as follows.

Equipment	Manual Designation
YRC1000 Controller	YRC1000
YRC1000 Programming Pendant	Programming Pendant
Cable between the manipulator and the controller	Manipulator cable
YRC1000 software pendant	Software pendant (optional)

Descriptions of the keys, buttons, and screen of the software pendant and the keyboard keys and screen of the PC (personal computer) are shown as follows:

Equipment			Manual Designation
Software Pendant	Key Sheet	Character Key and Symbol Key	The keys which have characters printed on them are denoted with []. e.g. [ENTER], [SHIFT]
		Axis Key and Numeric Key	“Axis Keys” and “Numeric Keys” are generic names for the keys for axis operation and number input.
		Cursor Key	Denoted as “cursor key”, or by an arrow [↑], [↓], [←], or [→].
		Keys Pressed Simultaneously	To press two keys simultaneously on the software pendant, click or double-click [SHIFT], and then click the desired key, e.g. [COORD]. The keys are denoted with a “+” sign between them, e.g. [SHIFT]+[COORD].
	Pendant Screen	Button	The button shown on the screen is denoted with { }. e.g. {REMOTE}
		Screen	The menu shown on the screen is denoted with { }. e.g. {JOB}
PC Keyboard and Screen		Keyboard	Denoted by the key name.
		Screen	Denoted with { }. e.g. { } screen



Description of the Operation Procedure

In the explanation of operation procedure, the expression “Click . . .” means moving the cursor to the item and clicking [SELECT], or clicking the item on the screen by using the mouse.

Registered Trademark

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation. The indications of (R) and ™ are omitted.

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1	Introduction
1.1	Overview of Software Pendant

1 Introduction

1.1 Overview of Software Pendant

The software pendant on the PC provides functions equivalent to those of the programming pendant for the YRC1000 (excluding some functions).

The software pendant enables the following operations:

- Monitoring the playback state of the manipulator in the same way as the programming pendant
- Connecting to the YRC1000 on the same network as the PC



To connect the software pendant, the YRC1000 must meet the following conditions:

- The communication between the programming pendant and the YRC1000 is disconnected.
(For the method of disconnecting communication, refer to “Chap. 11.1 Disconnection Function” in “YRC1000 INSTRUCTIONS (RE-CTO-A221)”.
- Other software pendant is not connected.
- LAN interface is set up according to “Chap. 6.20.3 Connection to the Controller” in “YRC1000 GENERAL OPERATOR’S MANUAL (RE-CSO-A051)”.
- S2C1205=1 shall be set.

1	Introduction
1.2	Terms and Conditions of Use

1.2 Terms and Conditions of Use

The following shows the Terms and Conditions of Use for the software pendant. To use the software pendant, the user must agree to these Terms and Conditions of Use.

1. Before using the software pendant, confirm that no person is present in the manipulator's operating range and that you are in a safe location. Injury may result if anyone enters the working envelope of the manipulator during operation.
2. Before using the software pendant, the user must supply the emergency stop button that can turn OFF the servo power supply. Connect the emergency button to the external emergency stop signal for the YRC1000. Then, before operating the manipulator, check that pressing the emergency stop button turns OFF the servo power supply. When the servo power is turned OFF, the SERVO ON LED on the key sheet of the software pendant turns OFF. If the manipulator cannot be stopped during an emergency, personal injury or equipment damage may result.
3. Once the emergency stop button is released, clear an obstacle or a failure that caused an emergency stop. Then turn ON the servo power.
4. View the manipulator from the front whenever possible. Improper operation or unexpected manipulator motion during teaching or operation may result in personal injury or equipment damage.
5. Before using the software pendant, exit other applications and the screen-saver. Improper operation of the software pendant may result due to another application running.

1	Introduction
1.3	Limitations

1.3 Limitations

The following shows the limitations in using the software pendant.

1. The following functions cannot be used by the software pendant.
To use one of these functions, use the programming pendant, the concurrent IO, and the MotoPlus for the YRC1000.
 - Overrun release
 - Manual brake release
 - Automatic backup (save destination: SD of programming pendant)
 - Zeroing (optional)
 - Programming pendant customization
2. The Software Pendant function does not operate properly when settings are applied for signals to be output on the safety logic circuit under the conditions in the Teach mode or the Play mode.

2	Installation Procedure
2.1	Environments for Installation

2 Installation Procedure

2.1 Environments for Installation

The environments to install the software pendant are shown below.

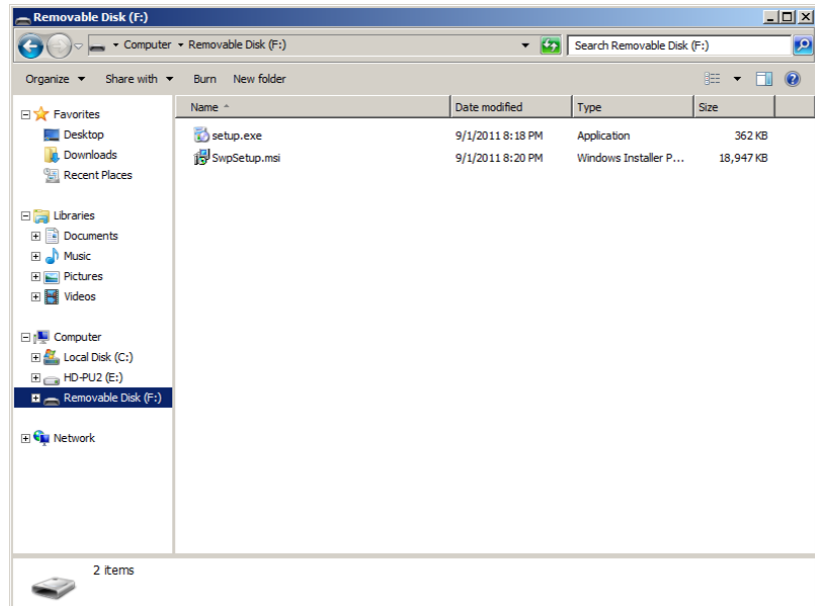
OS	Windows 7 Professional Edition (32-bit version)
CPU	Intel Core2 Duo 2 GHz or more
Memory	2 GB or more
Hard disk	Free space of 500 MB or more
Display	Display (256 colors or more) supported by MS-Windows
Mouse	Mouse supported by MS Windows

2 Installation Procedure

2.2 Installation of Software Pendant

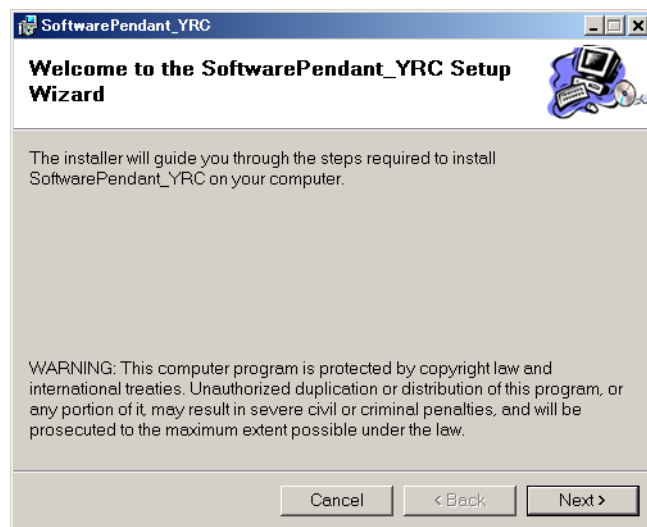
2.2 Installation of Software Pendant

1. Double-click “setup.exe”.



Installation must be performed as the administrator of the PC.

- The setup wizard starts.

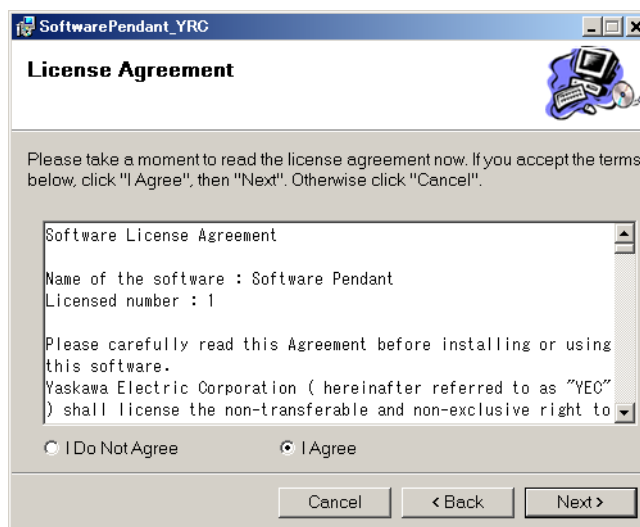


2 Installation Procedure

2.2 Installation of Software Pendant

2. Click {Next}.

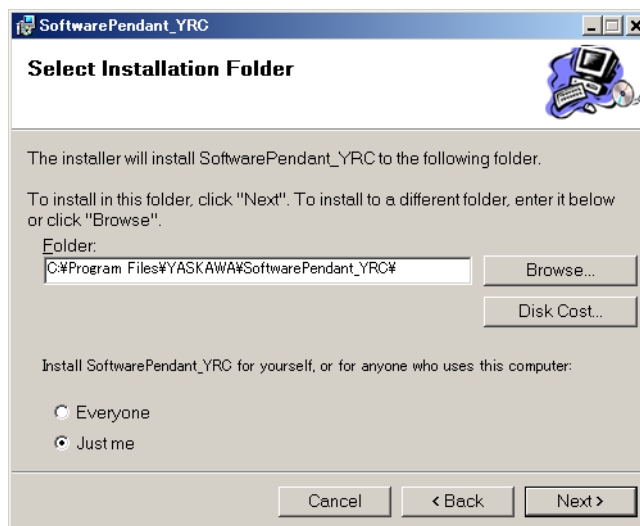
- “License Agreement” appears.



To use the software pendant, the user must agree to this Software License Agreement.

3. Carefully read the Software License Agreement. If you agree, select “I Agree” and click {Next}.

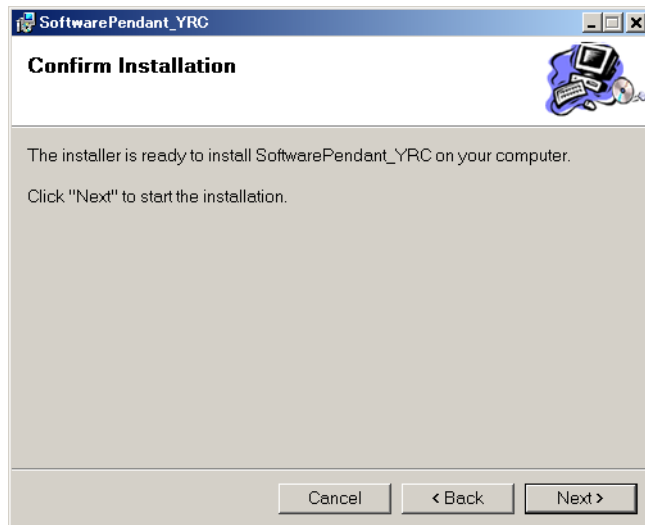
- “Select Installation Folder” appears.



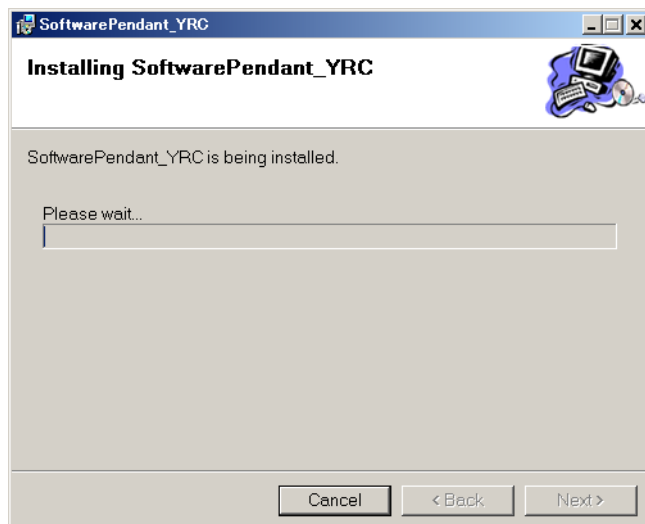
2 Installation Procedure

2.2 Installation of Software Pendant

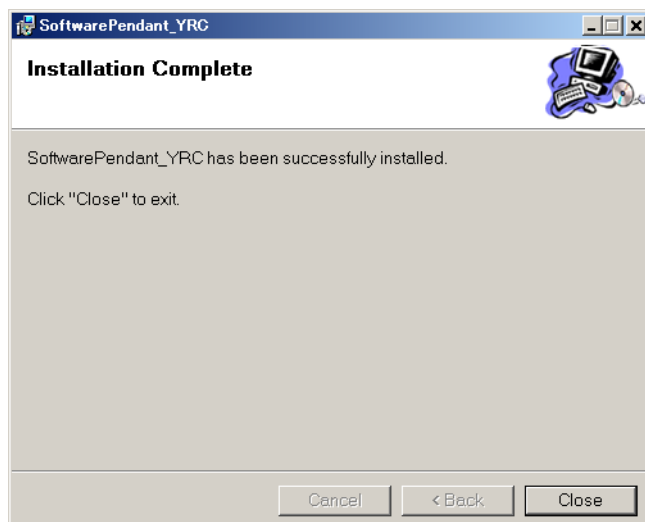
4. Select the install destination, select the user, and then click {Next}.
 - "Confirm Installation" appears.



5. Click {Next}.
 - The installation starts.



- "Installation Complete" appears.



2	Installation Procedure
2.3	Installation of Hardware Key Driver

2.3 Installation of Hardware Key Driver

To operate the software pendant properly, be sure to connect the hardware key (USB-stick type) supplied with the package to the PC in advance.

Before connecting the key to the PC, be sure to perform the following procedures "*Note on PC*" and "*Installation of driver*", and then connect the key to the USB port.

■ Note on PC

Due to the hardware configuration, multiple USB-stick type keys cannot be connected to one USB port by connecting the keys each other. Thus, connect one key to one USB port.

To install multiple pieces of offline software and connect multiple USB-stick type keys to one PC, use the PC which has the same number of USB ports as that of pieces of offline software.

■ Installation of driver



The key must be removed from the PC before installing the driver.

To install the driver, execute the "\\SentinelDriver-7.6.3\\Sentinel Protection Installer 7.6.3.exe" in the install CD-ROM.

For the installation procedure, refer to "\\SentinelDriver-7.6.3\\Manual\\SafeNet_Sentinel_EndUser_Guide.pdf."

3 Network Configuration

3.1 Changing Network Configuration

3 Network Configuration

The software pendant communicates with the YRC1000. Thus, the network configuration of the PC on which the software pendant runs must be changed so that the software pendant is connected to the same network as the YRC1000.

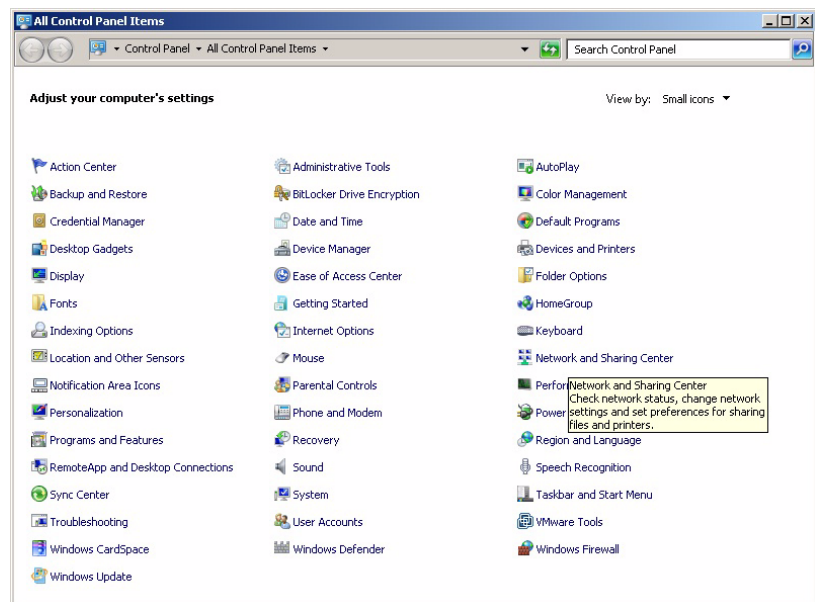
3.1 Changing Network Configuration

1. Click “Control Panel” from the Start menu.



The network configuration must be changed by the administrator of the PC.

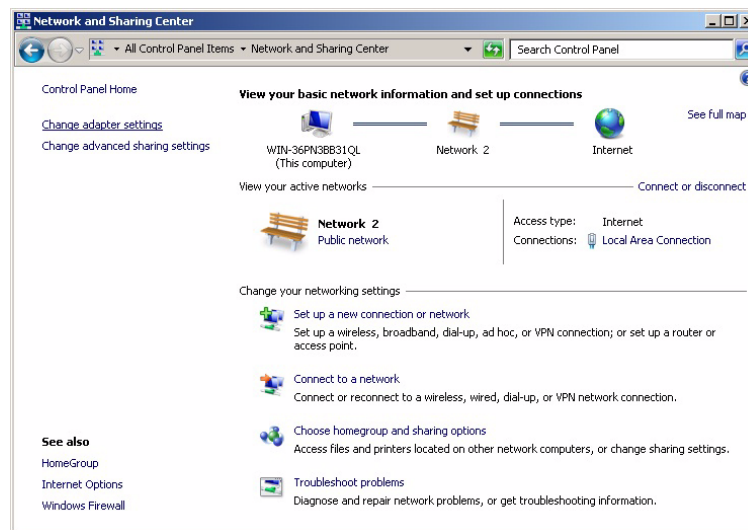
- The “All Control Panel Items” window appears.



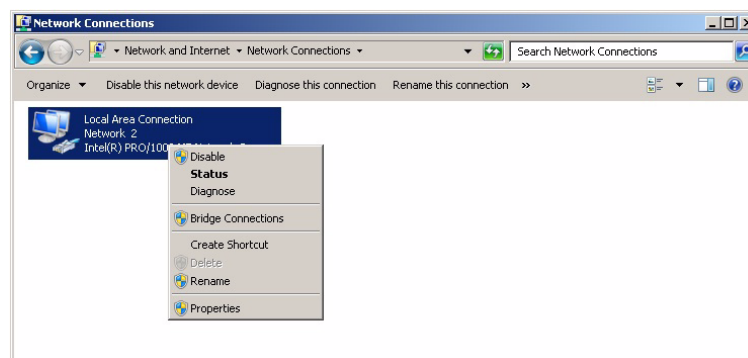
3 Network Configuration

3.1 Changing Network Configuration

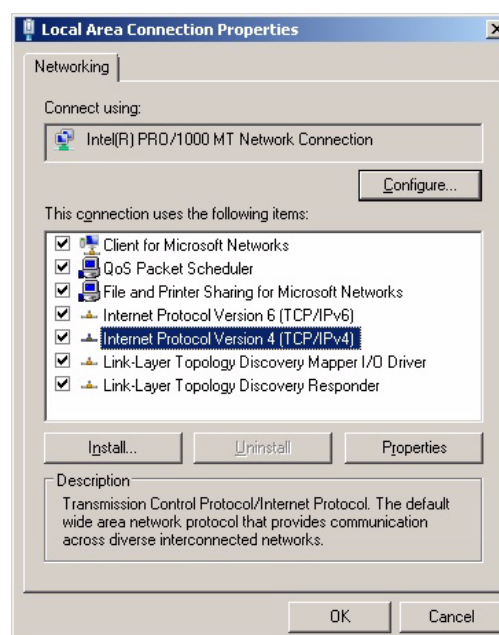
2. Click “Network and Sharing Center”.
 - The “Network and Sharing Center” window appears.



3. Click “Change adapter settings”.
 - The “Network Connections” window appears.



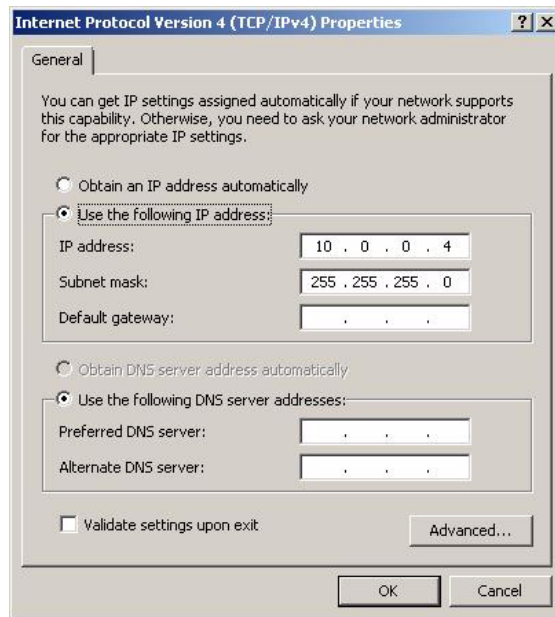
4. Select the desired network device, and then click “Properties”.
 - The “Local Area Connection Properties” window appears.



3 Network Configuration

3.1 Changing Network Configuration

5. Select “Internet Protocol Version 4 (TCP/IPv4)”, and then click “Properties”.
 - The “Internet Protocol Version 4 (TCP/IPv4) Properties” window appears.



6. Select “Use the following IP address”, and then enter the IP address appropriate to the user’s network configuration.



If the PC net work configuration is the same as the YRC1000, the IP address may conflict and cause a failure in the network operation.

4 Resolution Settings

4.1 Changing the Resolution Settings

4 Resolution Settings

Adjust the resolution of the PC to start the software pendant.

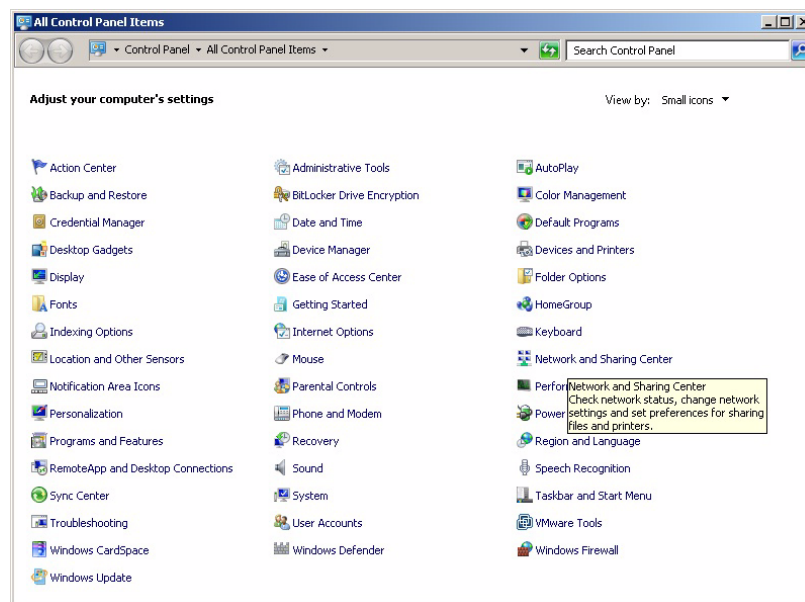
4.1 Changing the Resolution Settings

1. Click [Control Panel] from the Start menu.



Network settings must be performed by the administrator of the PC.

- All Control Panel Items window appears.



2. Click [Display].
 - Display window appears.
3. Select "Small", click [Apply].
 - Resolution of the PC is changed.

5 Operations

5.1 Wiring

Insert the LAN cable into the CN106(LAN2) of the Ethernet terminal for the external device communication of the YRC1000, and then connect with the PC to be used.

CN107(LAN3) is not available.

5.2 Disconnecting the Communication Between the Programming Pendant and the YRC1000

For the method of disconnecting communication, refer to “Chap. 11.1 Disconnection Function” in “YRC1000 INSTRUCTIONS (RE-CTO-A221)”.

5 Operations

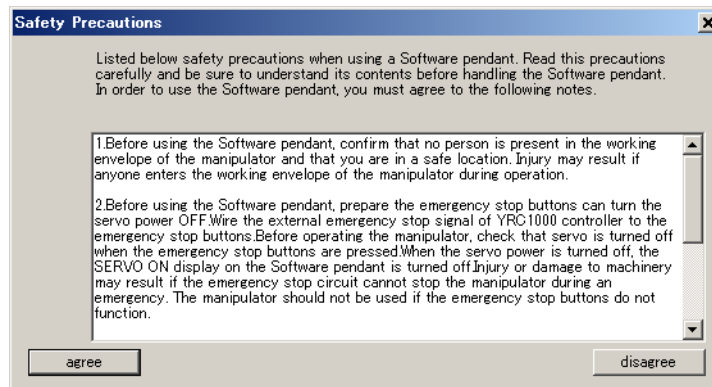
5.3 Startup of Software Pendant

5.3 Startup of Software Pendant

1. Click the shortcut on the desktop, or click “SoftwarePendant for YRC1000” from the Start menu.

NOTE The software pendant cannot be started unless the hardware key is connected to the USB port of the PC.

- The “Safety Precautions” window appears.



2. Carefully read the precautions, and click {agree} if you agree.

NOTE To use the software pendant, the user must agree to these safety precautions.

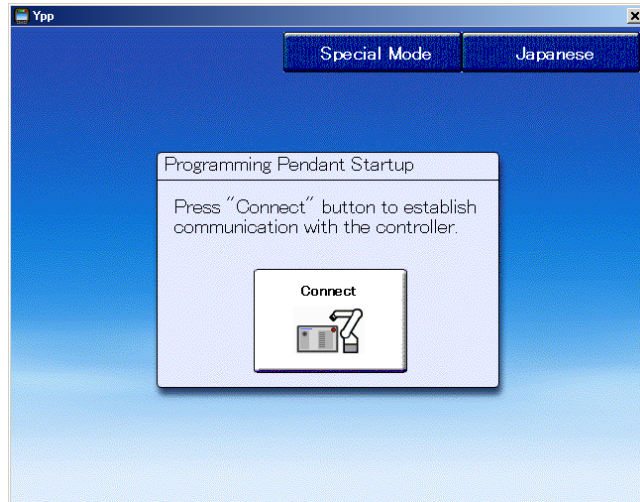
- The “Programming Pendant Startup” window appears.



NOTE The software pendant communicates with the YRC1000. If the block warning appears due to the firewall, release the block, and then use the software pendant.

5.4 Connection to YRC1000

1. Click "Connect".



- The "Select YRC1000" window appears.
In this window, the user can select the YRC1000 to be connected on the network.



To sort items, click the tab "RC Name", "IP Address", etc.

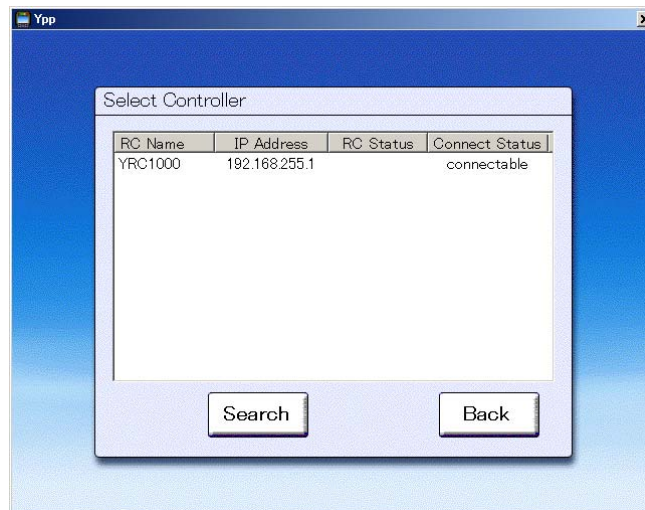


To search for the YRC1000 on the network again, click "Search".

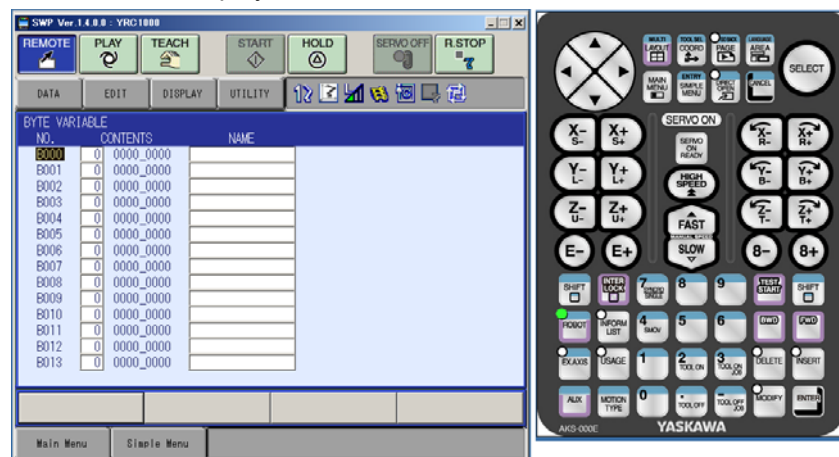
5 Operations

5.4 Connection to YRC1000

2. Select the YRC1000 to be connected, and then click {Connect}.

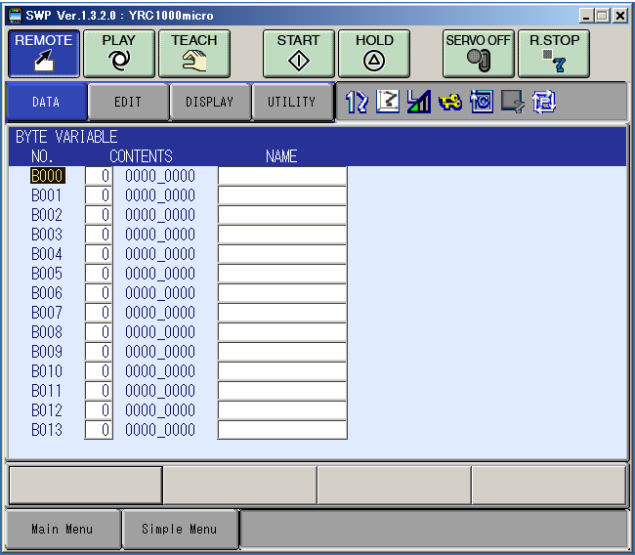


- The YRC1000 is connected, and the pendant screen and the key sheet are displayed.



5.5 Description of Buttons

The software pendant can be controlled similarly to the programming pendant, but mouse-clicking is used instead of button-pressing, switch-turning, or screen-touching.



For usage of buttons not described in this chapter, refer to “YRC1000 GENERAL OPERATOR’S MANUAL (RE-CSO-A051)” and “YRC1000 INSTRUCTIONS (RE-CTO-A221)”.








5 Operations

5.5 Description of Buttons

■ Pendant Switch

When a button is selected, it is displayed in blue. When the buttons cannot be used, they are shown shaded.

Table 5-1: Pendant Switch

Button	Function and application	
	Mode switch Remote mode state	By clicking this button, the mode is changed to the remote mode.
	Mode switch Play mode state	By clicking this button, the mode is changed to the play mode.
	Mode switch Teach mode state	By clicking this button, the mode is changed to the teach mode.
	{START}	This button cannot be used by the YRC1000 software pendant.
	{HOLD}	By clicking this button, the manipulator's operation is stopped temporarily.
	{SERVO ON/OFF} Displayed in green while the servo power is ON.	This button cannot be used by the YRC1000 software pendant.
	{R.STOP} Displayed in blue while the robot is stopped. Click again to cancel.	By clicking this button, the servo power is turned OFF.



The pendant switches cannot be used when inputting the characters, changing the font style, changing the size of buttons, and also when the window pattern change display and the warning dialog box is shown.
Before using the pendant switches, be sure to close every windows and dialog boxes.






5 Operations

5.5 Description of Buttons

■ Pendant Switch





When a key is selected, it is displayed in blue. When the keys cannot be used, they are shown shaded.

Table 5-2: Software Pendant Keys and Keyboard Keys (Sheet 1 of 3)

Key	Corresponding key on keyboard	Function and application
SELECT 	Space key	Works as described below. <ul style="list-style-type: none"> • Selects menu items in the main menu area and the pull-down menu area. • Makes the selected item ready to be set in the general-purpose display area. • Displays multiple messages in the message area.
Cursor 	Arrow keys 	Moves the cursor in the direction of the arrow. <ul style="list-style-type: none"> • The size of the cursor and the range or place where the cursor can move will vary depending on the window. • If [↑] is pressed when the cursor is on the [NOP] line, the cursor will move to the [END] line. [SHIFT] + [↑] Scrolls the screen upward. [SHIFT] + [↓] Scrolls the screen downward. [SHIFT] + [→] Scrolls the screen to the right. [SHIFT] + [←] Scrolls the screen to the left.
CANCEL 	Esc	Cancels the current status. <ul style="list-style-type: none"> • Deletes the sub menu in the main menu area and the pull-down menu area. • Cancels the input data or the input status in the general-purpose display area. • Cancels the multiple-message display in the message area. • Cancels the occurred error.
AREA 	Tab	Moves the cursor in the following order: "Menu Area"→"General-Purpose Display Area"→"Message Area"→"Main Menu Area". If no item is displayed, the cursor does not move. [SHIFT] + [AREA] The language can be switched when the bilingual function is valid. (Bilingual function is optional.)





5 Operations
5.5 Description of Buttons

Table 5-2: Software Pendant Keys and Keyboard Keys (Sheet 2 of 3)

Key	Corresponding key on keyboard	Function and application
SHIFT 	Shift	<p>When a key is pressed with [SHIFT], the function of the key is alternated.</p> <p>The keys whose functions are alternated by pressing with [SHIFT] are following: [MAIN MENU], [ASSIST], [COORD], [AREA], [MOTION TYPE], cursor key and numeric key.</p> <p>By single-clicking, [SHIFT] becomes “pressed state”. By clicking another key, the “pressed state” is released.</p> <p>By double-clicking, [SHIFT] remains “pressed state”. Clicking another key cannot release the pressed state. Thus, the simultaneous pressing of keys can be performed continuously. To release the pressed state, click [SHIFT] again.</p>
INTERLOCK 		<p>When a key is pressed with [INTERLOCK], the function of the key is alternated.</p> <p>The keys whose functions are alternated by pressing with [INTERLOCK] are following: [ASSIST], [MULTI], [TEST START], [FWD], and numeric key (numeric key customize function).</p> <p>By single-clicking, [INTERLOCK] becomes “pressed state”. By clicking another key, the “pressed state” is released.</p> <p>By double-clicking, [INTERLOCK] remains “pressed state”. Clicking another key cannot release the pressed state. Thus, the simultaneous pressing of keys can be performed continuously. To release the pressed state, click [INTERLOCK] again.</p>
ENTER 	Enter	<p>Registers instructions, data, current position of the manipulator, etc.</p> <p>Clicking [ENTER] moves the instruction or data displayed in the input buffer line to the cursor position to complete a registration, insertion, or modification.</p>
Numeric Keys 	0 to 9 - (period)	<p>Enters the number or symbol when the “>” prompt appears on the input line.</p> <ul style="list-style-type: none"> • “.” is the decimal point. “-” is a minus sign or hyphen.

5 Operations
5.5 Description of Buttons

Table 5-2: Software Pendant Keys and Keyboard Keys (Sheet 3 of 3)

Key	Corresponding key on keyboard	Function and application
Axis Keys 		This keys cannot be used by the YRC1000 software pendant.
TEST START 		This key cannot be used by the YRC1000 software pendant.
BWD 		This key cannot be used by the YRC1000 software pendant.
FWD 		This key cannot be used by the YRC1000 software pendant.

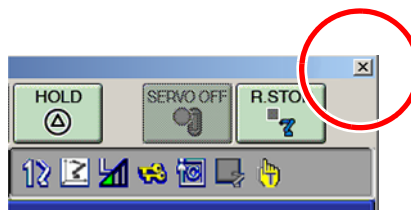


For detailed instructions on teaching, refer to “YRC1000 INSTRUCTIONS (RE-CTO-A221)” and “YRC1000 GENERAL OPERATOR’S MANUAL (RE-CSO-A051)”.

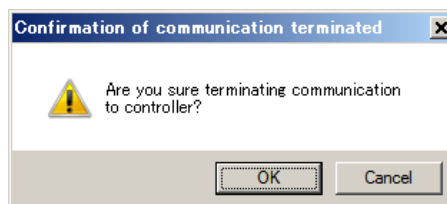
- 5 Operations
- 5.6 Exit of Software Pendant

5.6 Exit of Software Pendant

1. Click {×} at the right end of the title bar.



- A confirmation dialog box appears.



2. Click {OK} to exit out of the software pendant.

CAUTION

- Followings are the conditions of the YRC1000 after the completion of communication with the software pendant.
 - Mode: The mode is retained when the interruption of communication occurs.
 - Emergency stop signal of the programming pendant: Released
 - HOLD signal of the programming pendant: Released



During the external memory operation, the software pendant cannot be exited. After the external memory operation is completed, perform the exit operation again.

- The “Programming Pendant Startup” window appears.



3. Click {×} at the right end of the title bar.
 - The software pendant exits.

6 Frequently Asked Questions

6.1 Connection to YRC1000 Cannot Be Established

To connect the software pendant to the YRC1000, the YRC1000 and the software pendant must meet the following conditions:

- The programming pendant is not connected with the YRC1000.
- Other software pendant is not connected.
- The LAN interface setting is valid.
- S2C1205=1 is set.

If the above conditions are met and the connection is still not established, the PC and the YRC1000 may not be connected by network. To check the network connection, use the Command Prompt.

1. Click "Command Prompt" from the Start menu.
 - The Command Prompt starts.
2. Enter the command as follows:
 - >ping 10.0.0.2 (IP address of the YRC1000 to be connected)
 - If the network is established, a response is returned.



If the response is not returned, a network failure has occurred. Contact your network administrator to correct the failure.

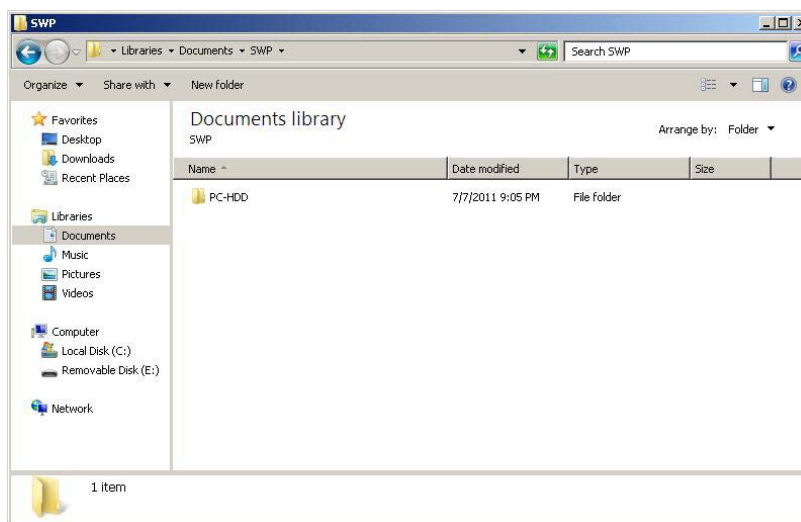
6 Frequently Asked Questions

6.2 What Folder Is Used for External Memory?

6.2 What Folder Is Used for External Memory?

The folder of the external memory for the software pendant is "Documents\SWP\PC-HDD\". The save, load, or verification can be performed for the data in the folder.

<Example> Local Disk (C:) ▼ User ▼ "username" ▼ Documents ▼ SWP
▼ PC-HDD

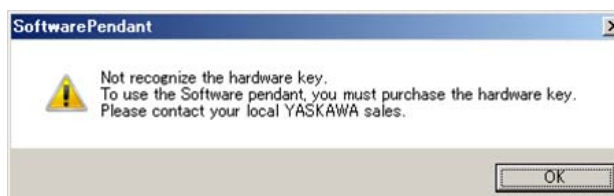


6.3 Software Pendant Does Not Start

To use the software pendant, the dedicated hardware key is necessary.

To purchase the hardware key, contact your YASKAWA representative.

If the hardware key is not connected properly, the following dialog box appears.



6.4 Software Pendant Behavior is Unstable

Before using the software pendant, other applications and screen-saver must be exited. Another application with high execution priority may cause the improper operation of the software pendant.

Also, the power-saving setting of the PC may cause the unstable behavior of the software pendant. When using the software pendant, disable the power-saving setting.

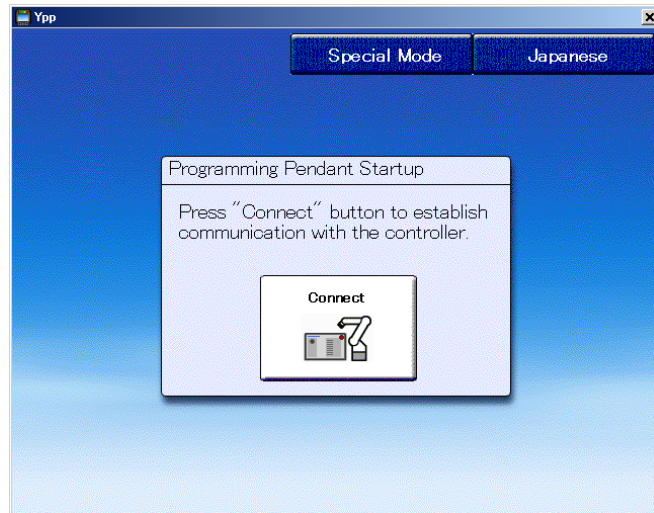
6 Frequently Asked Questions

6.5 To Use PC with Multiple Network Adapters

6.5 To Use PC with Multiple Network Adapters

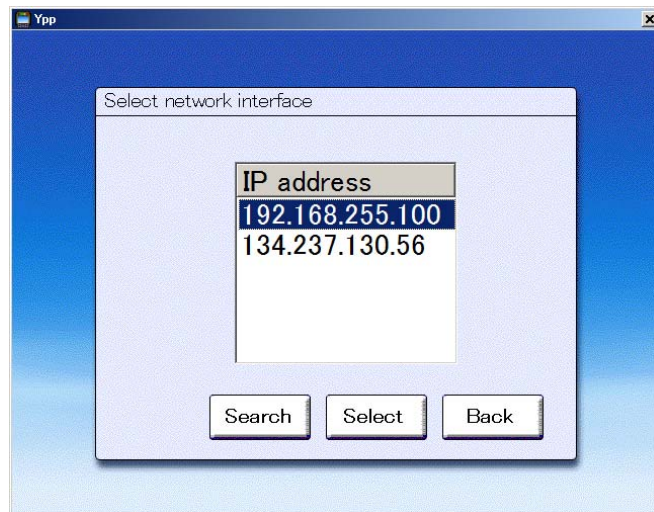
When using the software pendant on the PC with multiple network adapters (multiple IP addresses), the network adapter can be selected.

1. Click {Transmission Setting} in the startup screen.



– The “Select network interface” window appears.

2. Select the IP address of the desired network adapter, and then click {Select}.



Click the {Search} to retrieve the IP address set to the PC.



If the IP address is not set, a network failure has occurred. Contact your network administrator to correct the failure.

6 Frequently Asked Questions

6.6 If Hardware Key Driver Is Installed with USB-type Key Plugged into PC

6.6 If Hardware Key Driver Is Installed with USB-type Key Plugged into PC

1. With the USB-type key plugged into the PC, delete the drive registered as “unknown device” by using “Device Manager”.
2. Uninstall the driver (Sentinel System Driver) from “Programs and Features”.
3. Install the driver with the USB-type key removed from the PC. This allows the software pendant to operate properly.

6.7 If Hardware Key Driver of Version Older than Currently Installed One Is Installed

Installing the hardware key driver of a version older than the currently installed one may cause a problem. Uninstall the driver from “Programs and Features”, and then reinstall it.

For details of installation, refer to *chapter 2.3 “Installation of Hardware Key Driver”*.

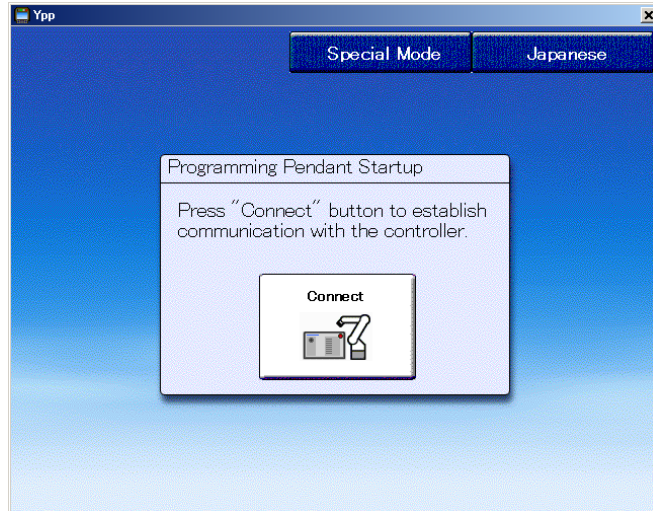


To display the “Programs and Features” menu, go to the Start menu, click “Control Panel”, and then click “Programs and Features”.

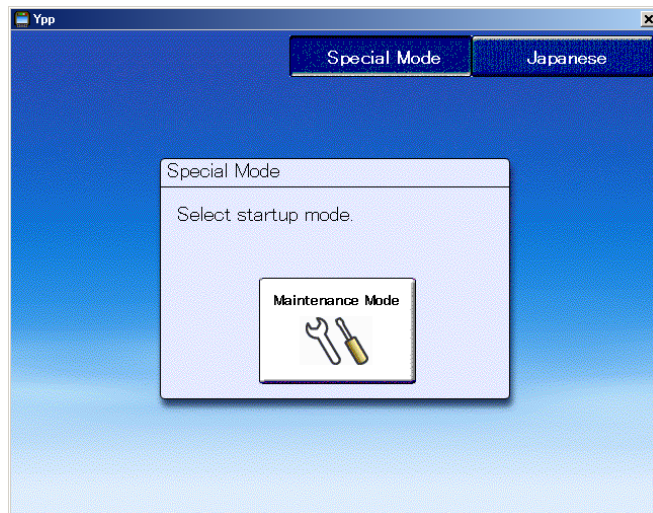
6.8 To Start YRC1000 in Maintenance Mode

To start the YRC1000 in the maintenance mode by using the software pendant, follow the procedure below.

1. Click {Special Mode} in the startup screen.



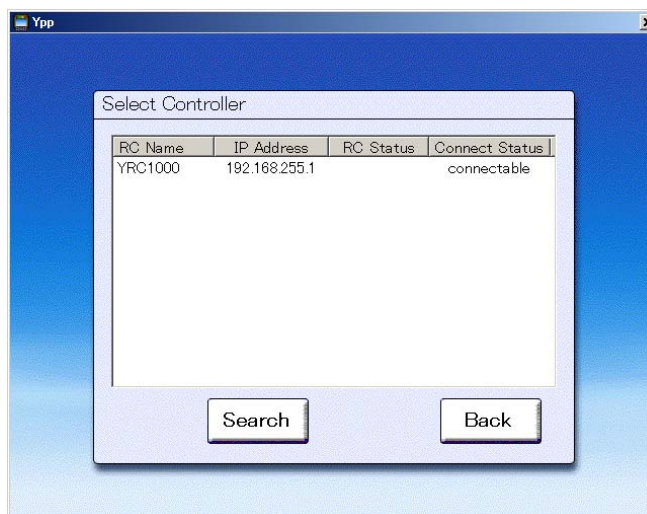
- The “Special Mode” window appears.



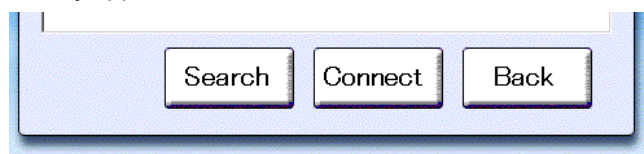
6 Frequently Asked Questions

6.8 To Start YRC1000 in Maintenance Mode

2. Click the {Maintenance Mode}.
- The “Select Controller” window appears.



3. Click the YRC1000 to be started in the maintenance mode.
- {Connect} appears.



4. Click {Connect}.
- The YRC1000 restarts in the maintenance mode.



When the servo power is turned ON, YRC1000 cannot be started in the maintenance mode. Use the maintenance mode after turning the servo power OFF while in the online mode.

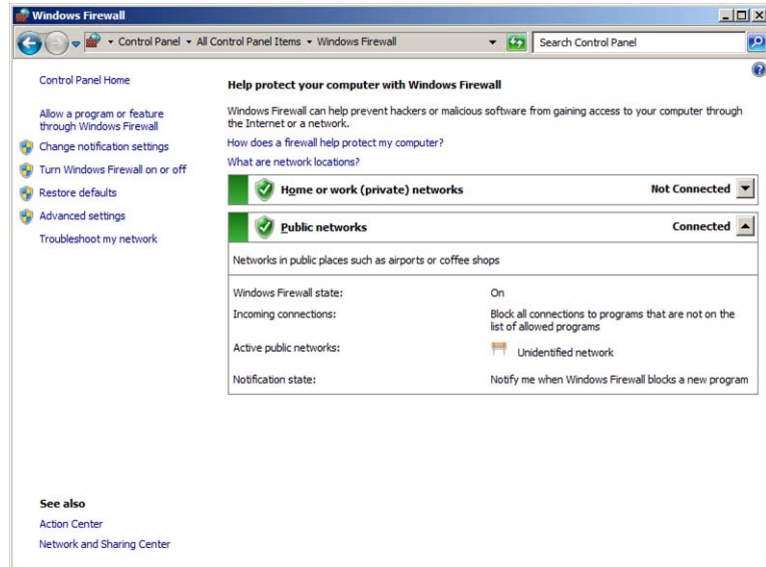
6 Frequently Asked Questions

6.9 To Check Firewall Settings

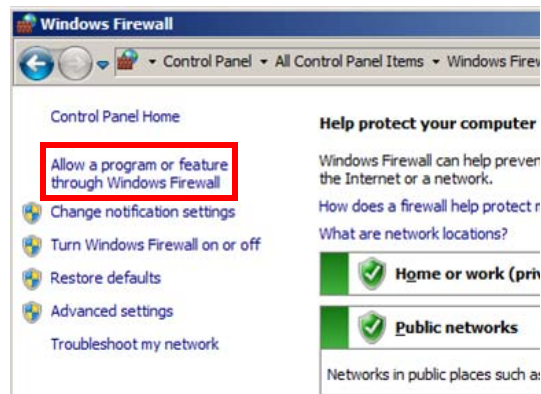
6.9 To Check Firewall Settings

To connect the software pendant to the YRC1000, communication through Windows Firewall of the PC must be allowed.

1. Click “Windows Firewall” from “Control Panel”.
 - The “Windows Firewall” window appears.



2. Click “Allow a program or feature through Windows Firewall”.

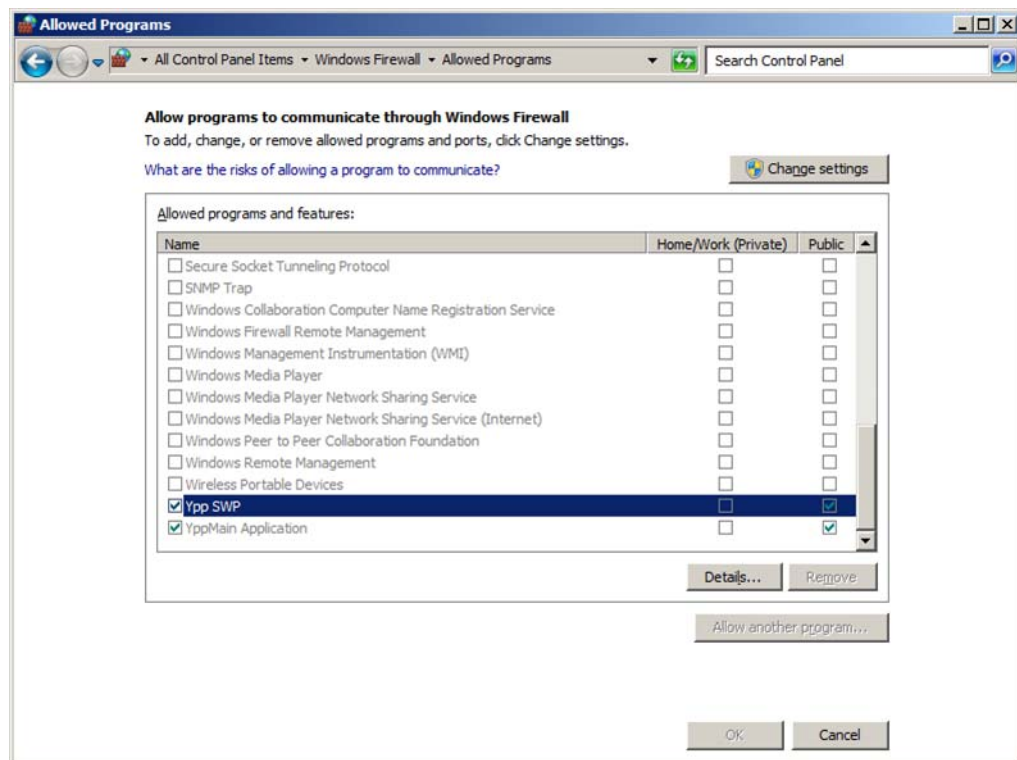


- The “Allowed Programs” window appears.

6 Frequently Asked Questions

6.9 To Check Firewall Settings

3. Make sure that the check boxes for “Ypp SWP”, “YppMain Application”, and corresponding networks are selected.



The firewall must be set or checked as the administrator of the PC.



The software pendant cannot be connected to the YRC1000 unless the communication via the firewall of “Ypp SWP” and “YppMain Application” are allowed. Be sure to allow the communication before using the software pendant.

YRC1000 OPTIONS INSTRUCTIONS

FOR SOFTWARE PENDANT

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