

Chapter 10

Remote PC Operation Screen (RPA)

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Instruction

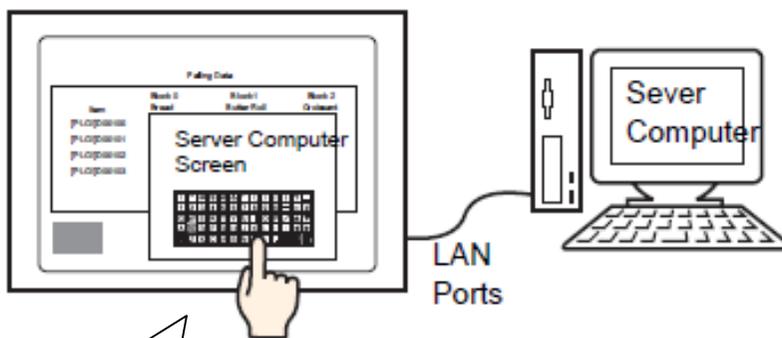
Remote PC Operation Screen (RPA)

Remote PC Operation Screen (RPA)

The remote PC operation screen is using the RPA feature that allows you to display and operate PC screens on the GP screen via the network.

You can operate applications on a remote PC, or refer to manuals saved in a PC.

To use this function, Virtual Network Computing (VNC) has to be installed in the PC.



If you convert the necessary data to PDF format beforehand, it is easier to refer to the data afterward.

See → GP-Pro EX Reference Manual “36.1.1 ■ Remote PC Access (RPA)”



IMPORTANT

Key code (License)

To use the RPA function, a separate key code (Type: EX-RPA) is required for each display unit.

The key code cannot be reissued even if lost. Please keep it securely.

Setup Procedure of RPA

1. Set VNC on a server computer.



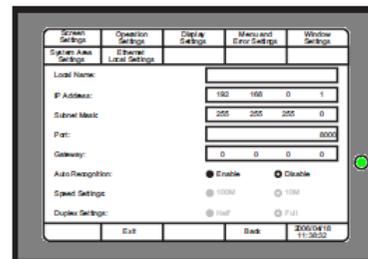
2. Set the IP address on the computer.
(Computer network connection)



3. Enter the key code in the Offline Mode on the GP unit.



4. Set the IP address in the Offline Mode on the GP unit.



5. Place an RPA window on a base screen.





Instruction

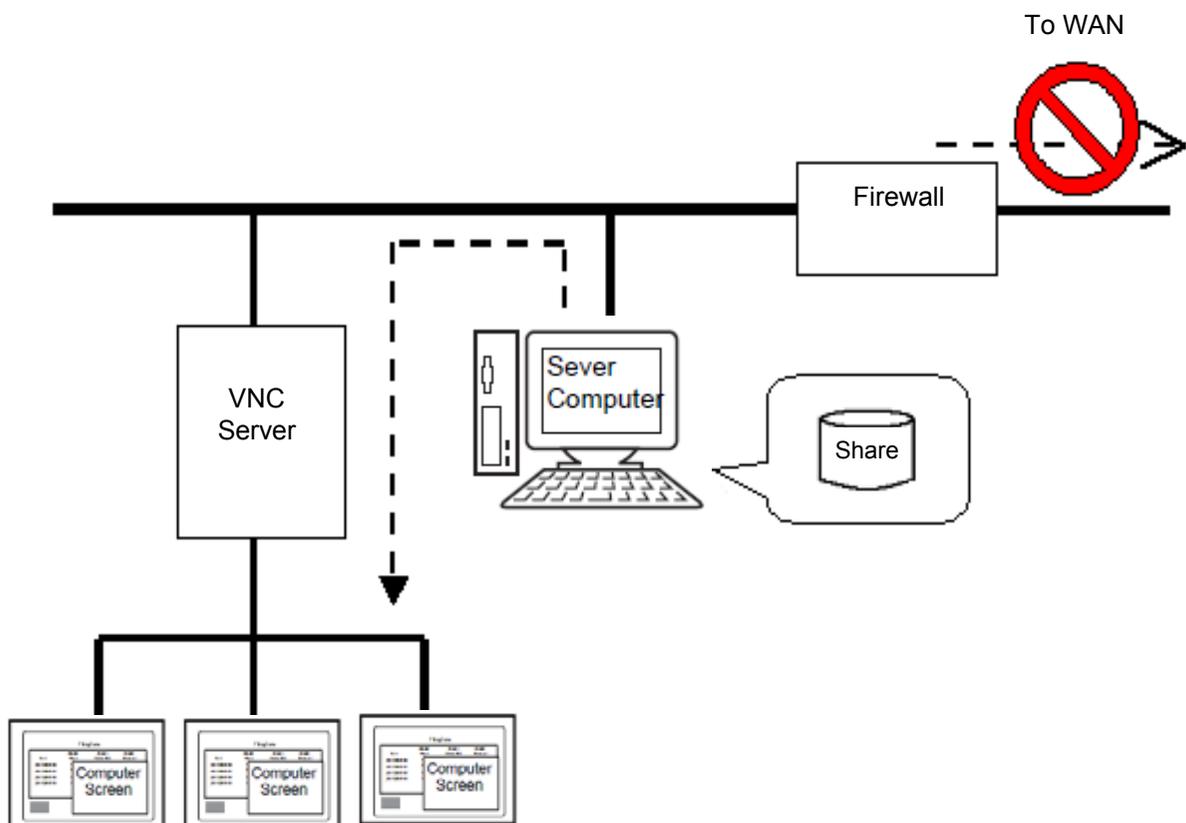
Virtual Network Computing (VNC)

To use the RPA feature, use software called Ultra VNC, which is free software (*). It allows a client to control screens on the server remotely.

Here in this practice, the computer is regarded as a VNC server and the GP unit as a VNC client.

* The client license on the GP unit is chargeable.

Reference → <http://www.uvnc.com/index.html>



NOTE

- Create a fully reliable environment to enhance security.
- The display or performance of the GP unit may be slow depending on the network environment.
- The connection between a GP and a PC is only enabled via LAN.
- Firewall prevents access when connecting multiple networks via a router.
- The performance of the server computer decrease by 10 to 30% when performing the RPA function.



Set Up Server (VNC)

Instruction

VNC Setup Procedure

This chapter explains how to set up the computer (VNC Server), whose screens are to be displayed on the GP screen.

Install Ultra VNC from the folder, mentioned below, in the CD-ROM of GP-Pro EX.

\RPA\UltraVNC\UltraVNC_102_Setup.exe

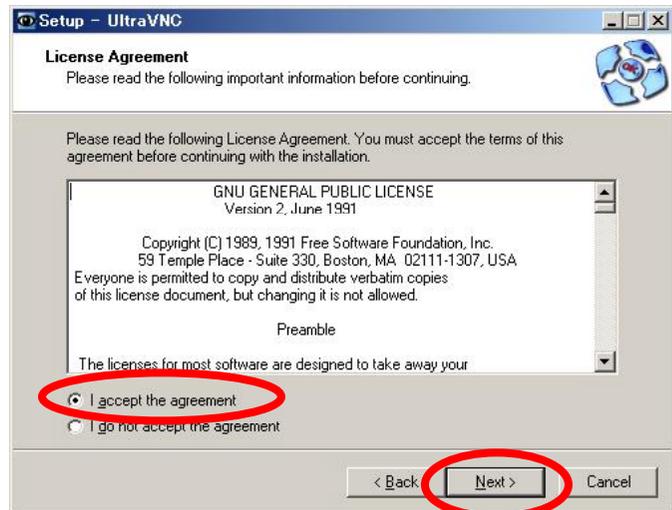
See GP-Pro EX Reference Manual “36.3.2 Setup Procedure”

• Procedure of Installation

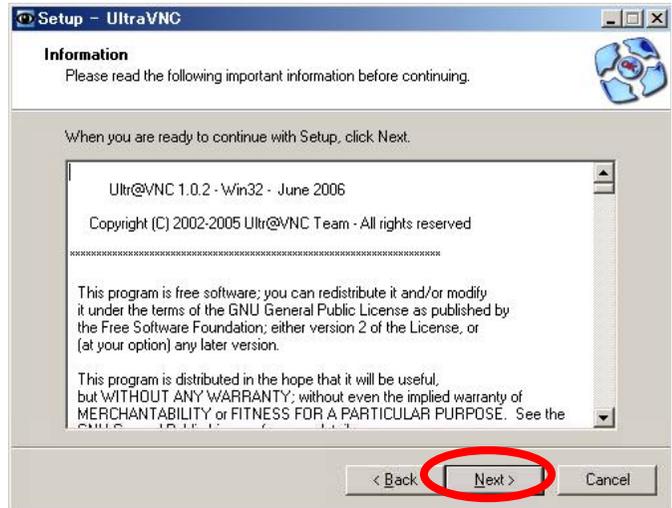
- 1) Install UltraVNC from the above mentioned folder.
Double-click the icon and click [Next] in the Setup-UltraVNC window.



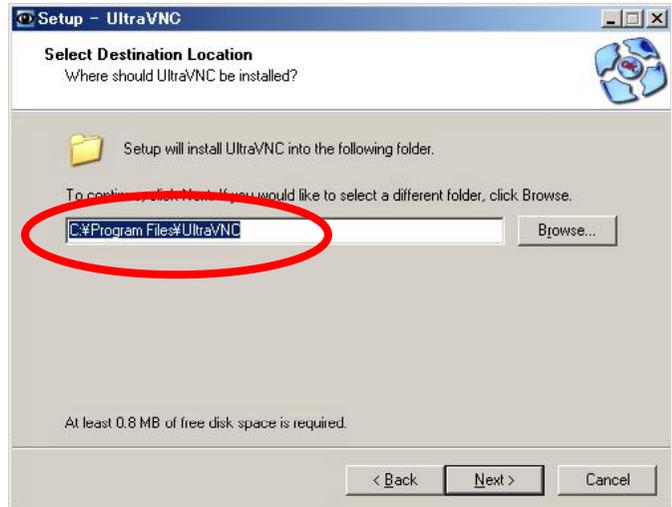
- 2) Check [I accept the agreement] and click [Next].



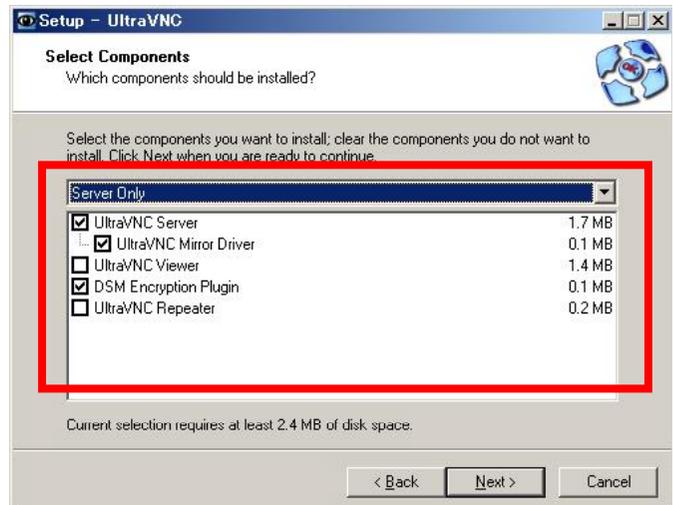
3) Click [Next].



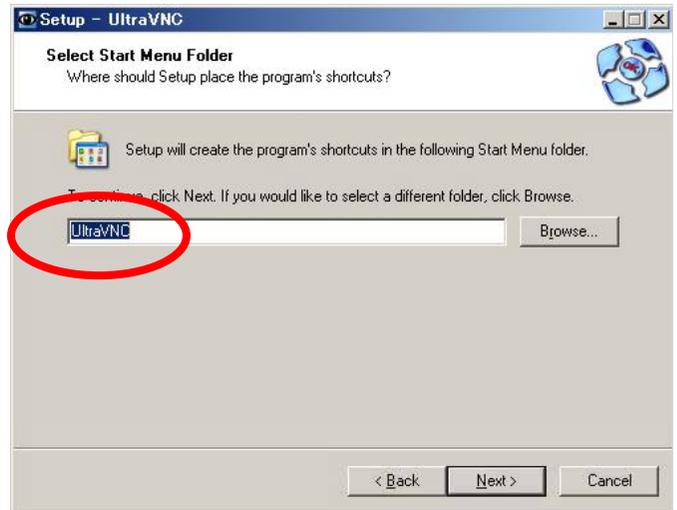
4) Specify a folder to install the software into. It is necessary to change the default folder.



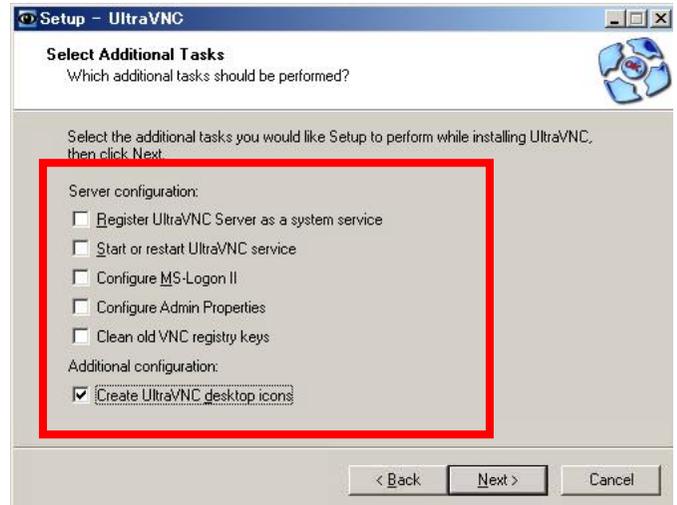
5) Select components to install. Select [Server Only] from the pull-down menu.



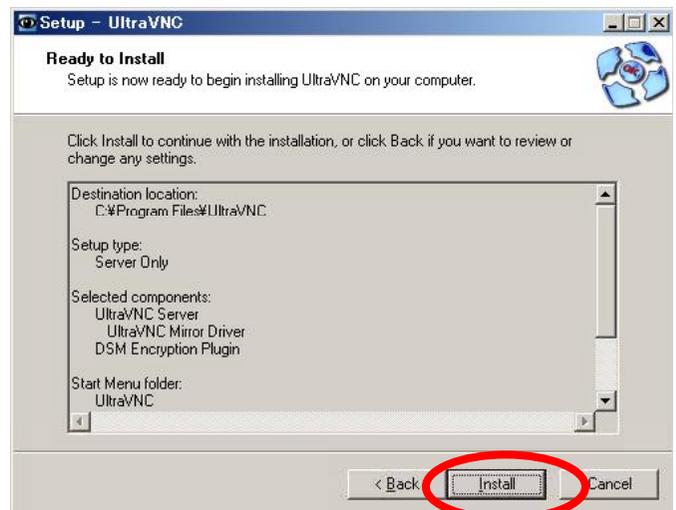
- 6) Specify a name to be registered in the Start menu. It is not necessary to change the name.



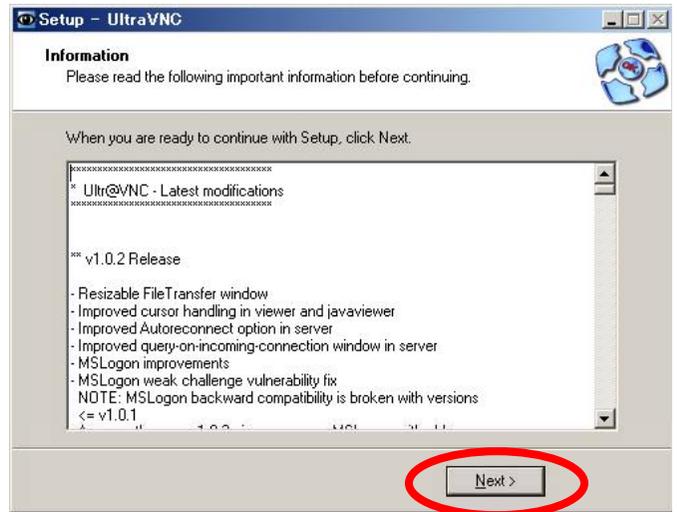
- 7) Select additional tasks such as program icon registration. It is not necessary to check any boxes here.



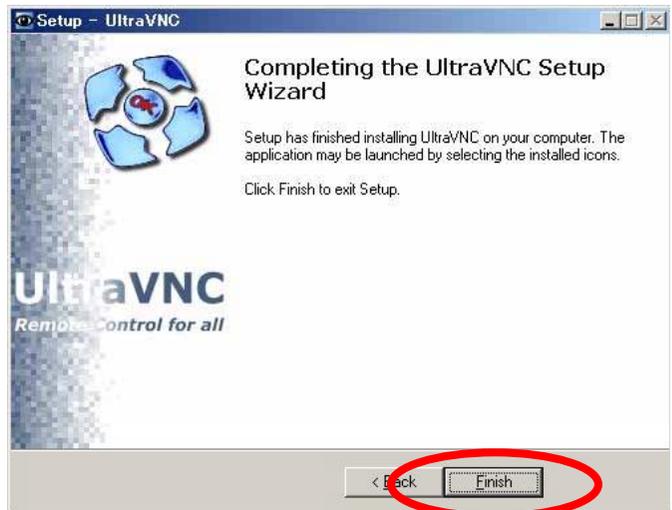
- 8) Click [Install].



9) Click [Next].



10) Click [Finish] to complete the installation.





Remote PC Access

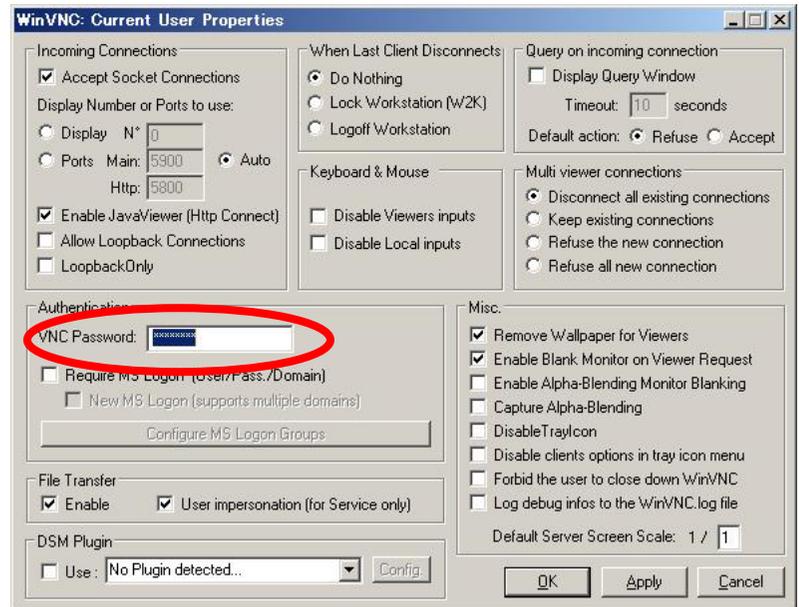
(1) Start up UltraVNC

1) Use the [Start] menu or the shortcut icon to start UltraVNC.

2) In the WinVNC Current User Properties dialog box, set the [VNC Password] within 30 characters in the [Authentication] area.

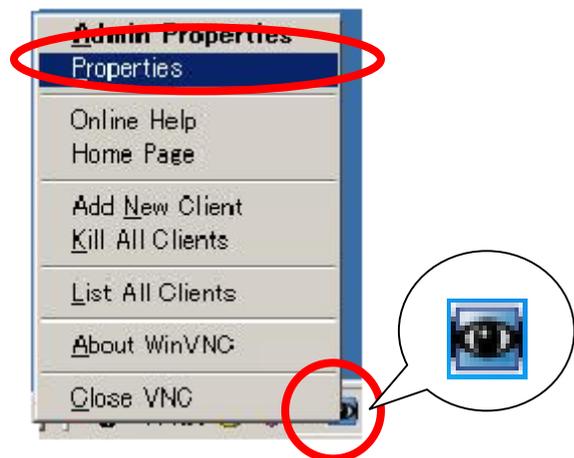
Password must be set.
Please keep your password in a secure place for your future reference.

As for other items, it is not necessary to change.
Click [OK] to finish the settings.



(2) Set UltraVNC after Startup

1) After starting up, right-click the UltraVNC icon shown on the task tray and select [Properties]. UltraVNC will open.

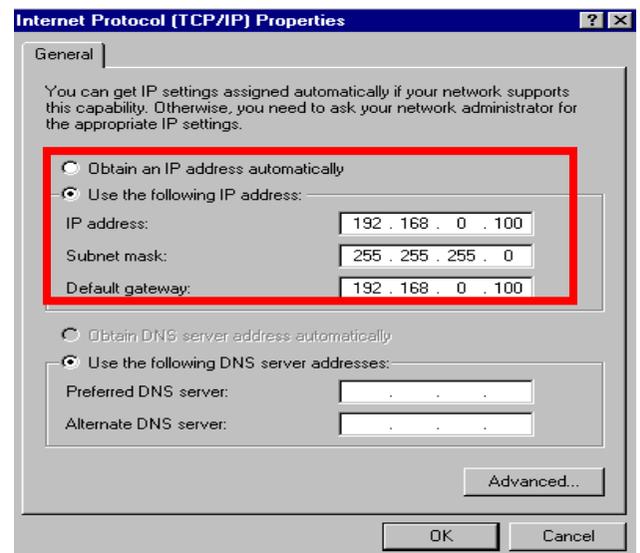


- 2) The WinVNC: Current User Properties window will open. Uncheck [Video Hook Driver] and leave other items.



- 3) Change the IP address of the PC as necessary. In case to connect the RPA to the company network, please check with your network administrator.

Also, set [Default gateway] on the computer. If you have not set a gateway, enter the IP address of the computer.



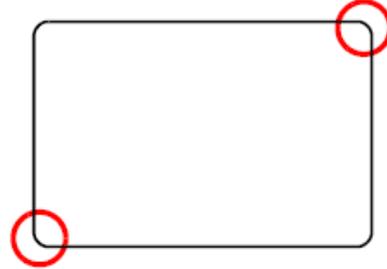


Set Key Code

Instruction

Key Code Setup Procedure

1) Enter the offline mode on the GP unit.
Touch the top right corner first then the bottom left corner within 0.5 second. The system menu will appear on the bottom of the GP display.



2) Touch [Offline].



3) Select [Main Unit Settings] → [Extended Settings].

Touch the [Remote PC Access Key Code] entry field and enter the key code. Touch [OK] to complete entering.

Once you enter the key code, it is not necessary to enter it again.

4) Touch [Exit] to return to the online mode.

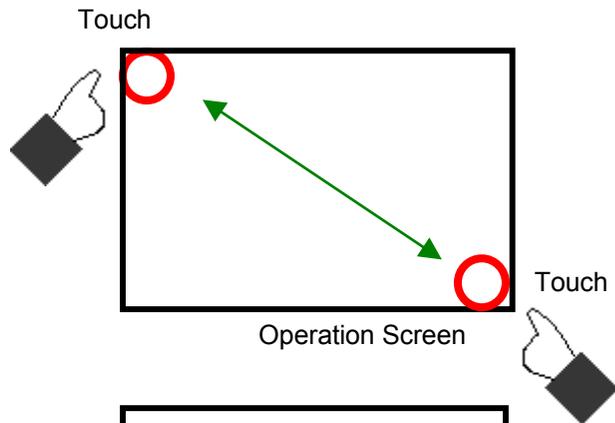
1. Enter offline mode and touch [Main Unit Settings] in the item changeover buttons.
2. When [Main Unit Settings] opens, touch [Extended Settings].
3. When [Extended Settings] opens, touch the [Remote PC Access Key Code] input frame to display the numeric keypad. When the numeric keypad appears, enter a key code and touch [OK]. (Example: [Remote PC Access Key Code] 1111-2222-3333)
4. When you touch [Exit] to save the changes, GP is automatically restarted.

★ One Point

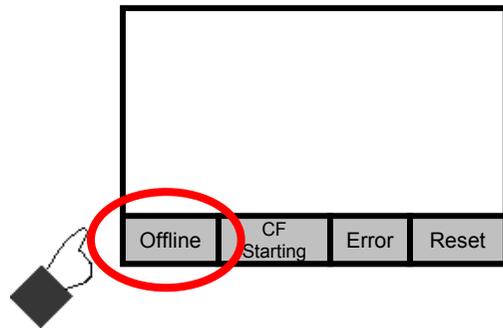
Set the IP address in the GP's Offline Mode.

<< Enter Offline Screen >>

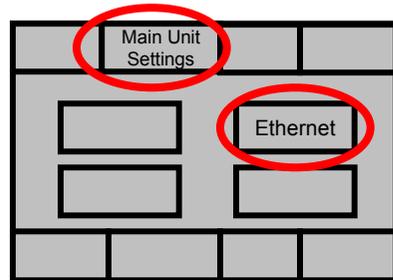
Touch the two corners which are diagonal (the upper left and bottom right, or the upper right and bottom left) of the screen alternately.



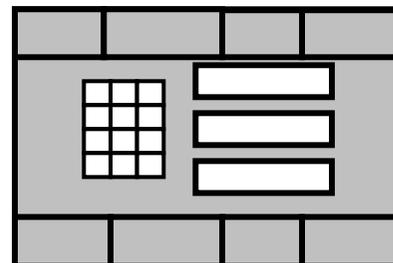
Touch [Offline] when the gray bar appears.



Touch the menu as follows:
Main Unit Settings
↓
Ethernet Local Settings



On the Ethernet Local Settings screen, set the IP address, the subnet mask, and other items if necessary, from the pop-up keypad.



NOTE

- You can set only one Remote PC Access Window Display per screen.
- The Remote PC Access Window Display performs only on TFT models with the VGA resolution or higher.



Let's Set RPA

<Practice Screen>



<Completed Screen>



- [Setup Procedure]
1. Set a Remote PC Access Window Display on the base screen "9".
 2. Transfer screen data and connect to a computer.

(1) Set RPA Window

1) Open the base screen and place a Remote PC Access Window Display in the editing area.



2) Double-click the placed Remote PC Access window display and change settings.



<Basic>

Type: Activate Switch

Remote PC Access server address:

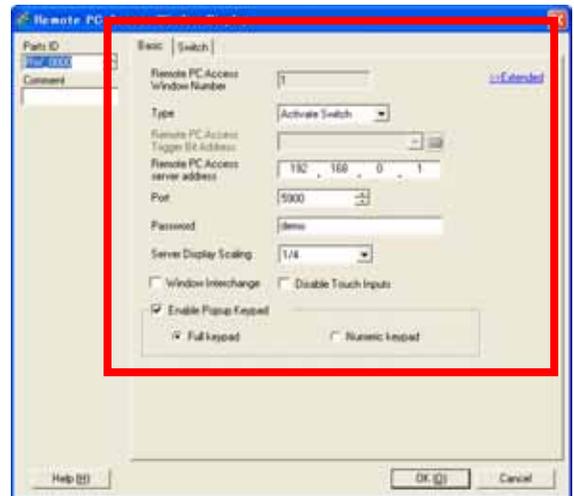
Set the same address as that on the VNC server.

Port: 5900 (Not related to the port number for the Ethernet settings on the GP unit)

Password: Set the same password as [VNC Password] that you have set in the Win VNC Current User Properties dialog box.

See page 10-7 "Start Ultra VNC".

Server Display Scale: Arbitrary
(Here, select "1/4", which reduces both of the length and width to half of the PC screen.)

**<Switch>**

Check [Use Remote PC Access Window Switch].

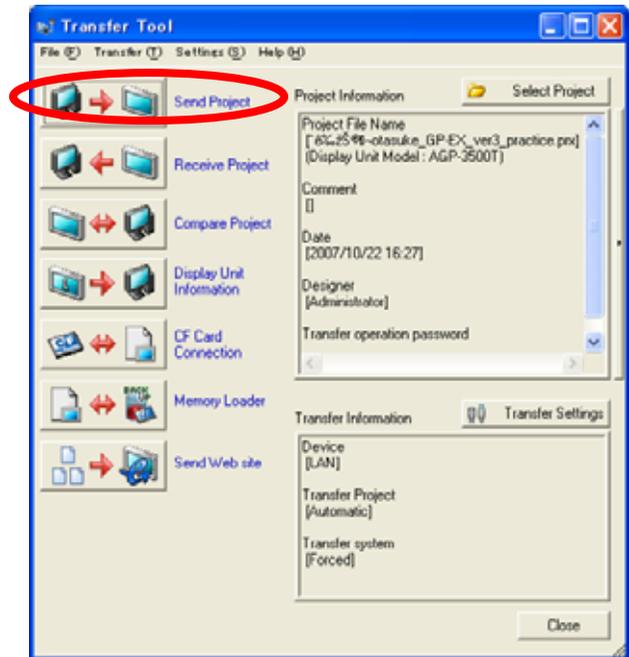
Select a desired shape of the switch.

Click  to finish the settings and adjust the position of the display window.

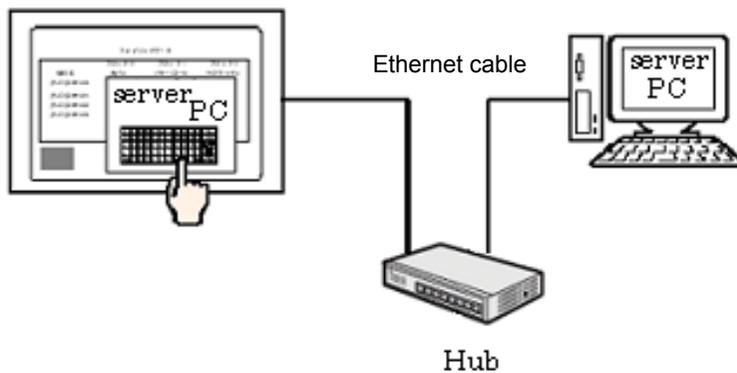
**NOTE**

If you haven't set the key code of the RPA on the GP unit, an error will appear when you transfer screen data. Please make sure to set the key code before data transfer.

- 3) Save the project file under an arbitrary file name and transfer it to the GP.



- 4) Connect the GP and the computer using Ethernet cables via a hub.



Check the performance in the Simulation mode.



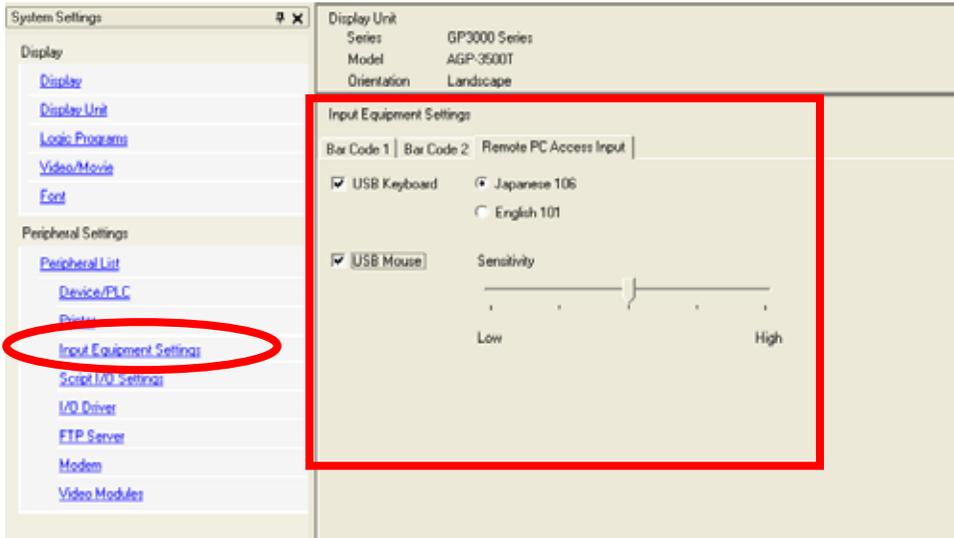
Or F12 key

★ One Point

You can also operate the server computer screens on the GP screen by a mouse or a keyboard connected to the USB port on the GP unit.

See GP-Pro EX Reference Manual
 “36.3 Display/Operate the computer screen on the GP”

Change settings on the System Settings window.



★ One Point

You can set the calibration of the display panel in the offline mode.

See GP-Pro EX Maintenance/Troubleshooting manual
 “2.8.1 Checking whether the Display is operating properly ■ Calibration Touch Panel”

