

## CHAPTER 18

# SETTING UP TARGET PANEL

<b>18.1. System Screens</b> .....	<b>1</b>
18.1.1. Numeric Keypad.....	1
18.1.2. Character Keypad.....	2
18.1.3. Password Keypad.....	3
18.1.4. Password Table.....	3
18.1.5. Select File.....	4
18.1.6. Rename.....	5
<b>18.2. Panel Setup</b> .....	<b>6</b>
18.2.1. Entering Panel Setup Mode.....	8
18.2.2. General Settings.....	8
18.2.3. Calibrating Touch Panel.....	10
18.2.4. Time and Date Settings.....	11
18.2.5. Link Settings (Serial Port).....	12
18.2.6. Link Settings (Ethernet Port).....	13
18.2.7. LAN Printer Address.....	14
18.2.8. FTP Site.....	15
<b>18.3. Recovering System by System Loader</b> .....	<b>16</b>

## 18.1. System Screens

The system screens are the screens that are built into an application and can be accessed by end-users in the target panel. System screens are window screens. Each of them has a title bar at the top of the screen that displays a line of text. The text indicates the purpose of the screen. You can press the title bar and hold it down to move the screen to the position you want and then release the pressing to locate the screen.

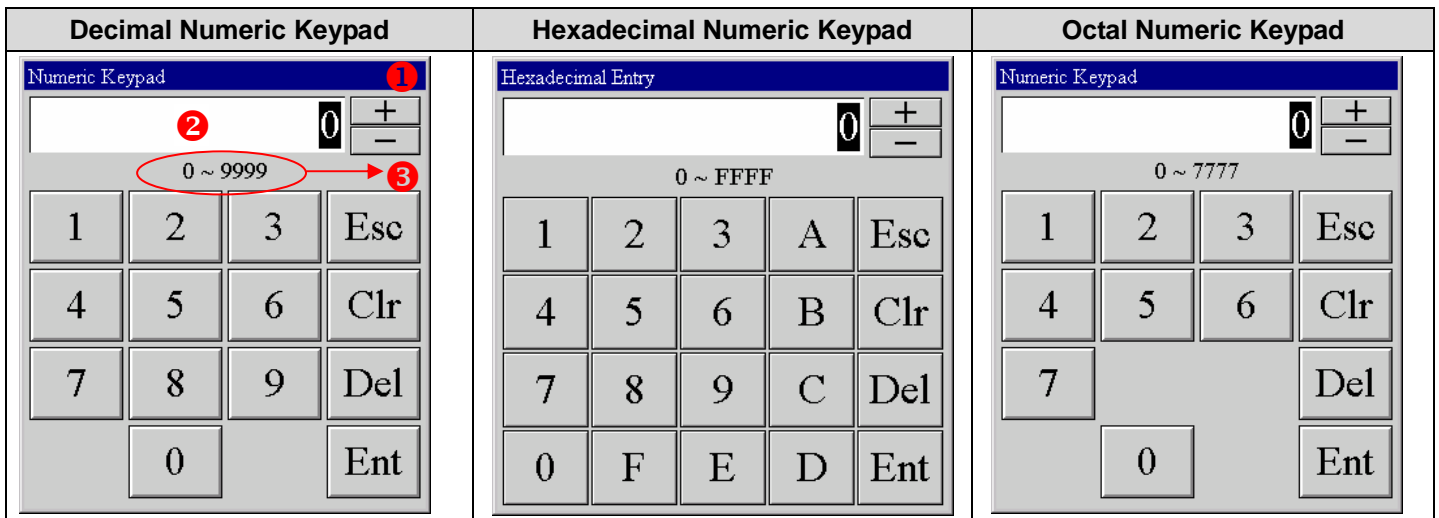
The system screens include:

- Built-in keypads that are used to input numbers or ASCII characters or passwords,
- Select File Window and Rename window that are used for file operations.

With the built-in keypads, you don't have to spend any time on programming them.

### 18.1.1. Numeric Keypad

The target panel displays the numeric keypad to let you enter a value when you press and release the Numeric Entry object, Word Button object and Recipe Table object. The following is examples of Numeric Keypads.

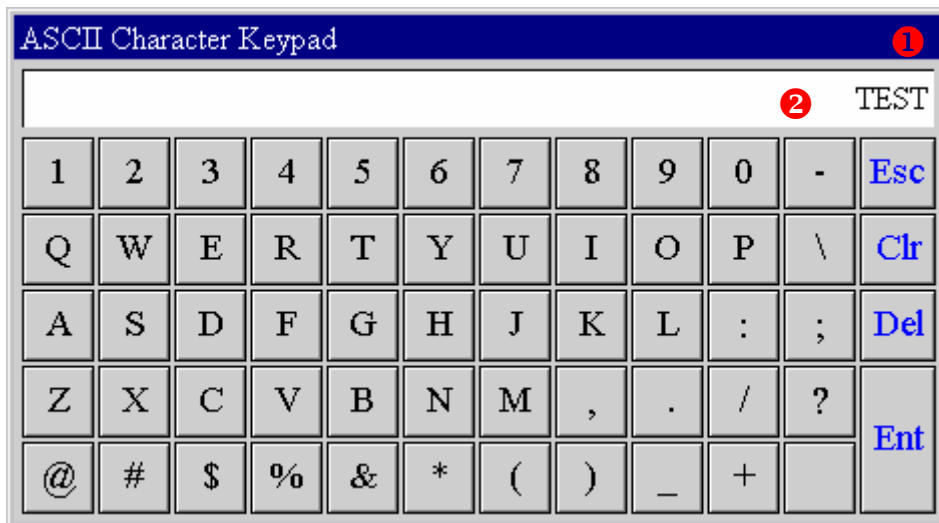


The following table describes each item in the keypad screen.

Item	Description	
1 Title Bar	Press and hold the title bar to move the window screen.	
2 Keypad Display	Display current input value	
3 Allowable input range display	Display allowable input range	
Buttons	+	Press the button to increase the value by 1
	-	Press the button to decrease the value by 1
	0 ~ 7	Press the number buttons of the Octal Numeric Keypad to enter a number from 0 to 7
	0 ~ 9	Press the number buttons of the Decimal Numeric Keypad to enter a number from 0 to 9
	0 ~ F	Press the number buttons of the Hexadecimal Numeric Keypad to enter a number from 0 to F
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input value.
	Del	Press it to delete the preceding character.
Ent	Press it to close the screen and accept all changes.	

### 18.1.2. Character Keypad

The target panel displays the ASCII Character keypad to let you enter an ASCII character when you press and release the Character Entry object. The following is an example of the Character Keypad.

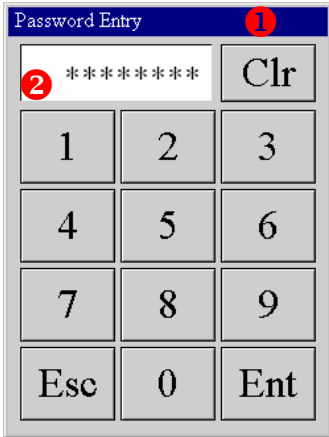


The following table describes each item in the keypad screen.

Item		Description
① Title Bar		Press and hold the title bar to move the window screen.
② Keypad Display		Display current input string
Buttons	ASCII Characters	Press the button to enter an ASCII character.
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input value.
	Del	Press it to delete the preceding character.
	Ent	Press it to close the screen and accept all changes.

### 18.1.3. Password Keypad

The following is an example of the Password Keypad.



The following table describes each item of the Password Keypad.

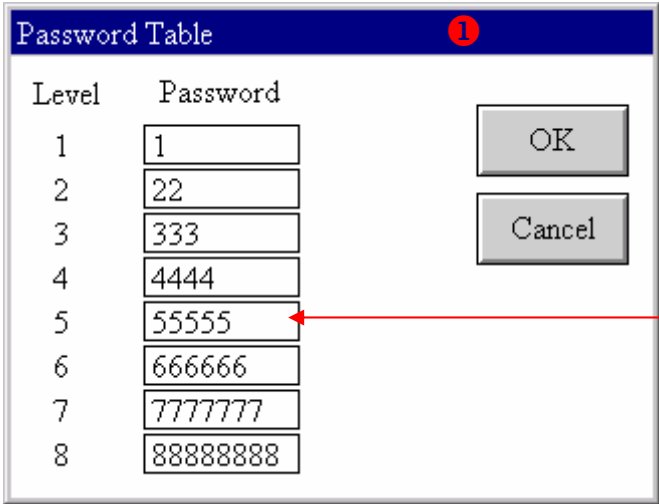
Item	Description	
<b>1</b> Title Bar	Press the title bar and hold down the pressing to move the window screen.	
<b>2</b> Password Display	Display current input password	
Buttons	0 ~ 9	Press the number buttons to enter a number from 0 to 9. It will display asterisks (*) instead of the number.
	Esc	Press it to close the screen and discard all changes.
	Clr	Press it to clear the input password.
	Ent	Press it to close the screen and input the password.

### 18.1.4. Password Table

To register new passwords or modify existing passwords for your application, you have to create a function button on a screen and assign the function “Show Password Table” to the button. When the panel running the application, a level 8 user can get the password table as the example shown below when he presses and releases the function button that shows the password table.

**Note:** The user can only get the passwords whose levels are lower than or equal to the user’s level for editing. For example, if the current user level is 5, the password table will only show the passwords for level 1 to level 5.

The following is an example of the Password Table when current user level is 8.



Press here and release the pressing to reverse the color of the field and bring out the decimal numeric keypad to specify the password for level 5.

The following table describes each item in the keypad screen.

Item	Description
<b>1</b> Title Bar	Press and hold the title bar to move the window screen.
Password	Press the field and release the pressing to bring out the decimal numeric keypad to specify the password for the corresponding user level. A password is a positive integer up to 8 digits. A password must be unique within the application.
OK	Press it to close the dialog box and accepts all changes.
Cancel	Press it to close the dialog box and discard all changes.

### 18.1.5. Select File

The Select File screen is only for the panels that support file operations. It allows the user to select a file from the system for the following operations:

No.	Operations	No.	Operations
1	Select a file to update the OS & AP	15	Read recipe data from TXT file
2	Select a file and run the OS & AP in it	16	Read recipe data from DAT file
3	Select a file to read data	17	Write OS and AP to file
4	Select a file to write data	18	Print screen to file (256 colors)
5	Select a file to append data	19	Print screen to file (64K colors)
6	Select a file to delete	20	Write logged data to .LDF file
7	Select a file to rename	21	Read logged data from .LDF file
8	Write recipe data to TXT file	22	Write line chart data to file
9	Write recipe data to DAT file	23	Read line chart data from file
10	Write logged data to file	24	Write scatter chart data to file
11	Write logged alarms to file	25	Read scatter chart data from file
12	Write alarm counts to file	26	Select a file to copy
13	Write logged operations to file	27	Read logged data file from file
14	Write panel data to file		

The following is an example of the Select File screen.

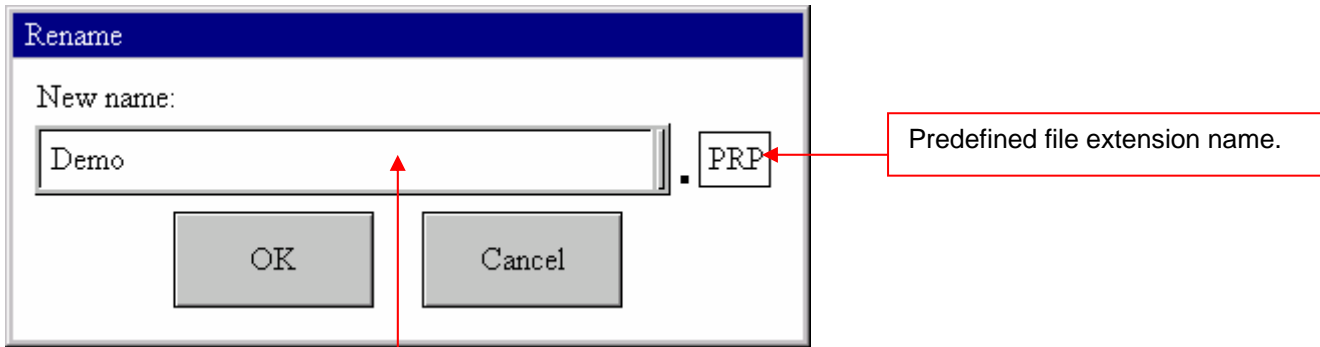
The screenshot shows the 'Select File' dialog box. The title bar is blue and contains the text 'Select File'. Below the title bar is a text field containing 'Select a file and run the OS & AP in it'. Below this is a text field showing the current disk 'C:\'. A list box displays the files '1.PR' and '2.PR', with '1.PR' highlighted. To the right of the list box are 'OK' and 'Cancel' buttons. Below the list box is a text field containing '1'. To the right of this field is a button labeled 'PRP'. A scroll bar is visible on the right side of the list box.

Annotations:

- Indicates the operation.
- Press the title bar and hold down the pressing to move the window screen.
- Displays current disk. "C:\": Indicates the flash disk. "D:\": Indicates the micro SD card. "E:\": Indicates the USB memory stick.
- The list box lists all the existing files in the specified disk. One file per line. And the current file is highlighted. If the desired file is not in the view you can use the scroll bar attached to the right side of the list to scroll to the file. You can select a desired file by touching its name which will be shown in the file name field below.
- File name field. It displays the name of the selected file. Or you can press it and release the pressing to bring out the ASCII characters keypad to specify the file name. The color of the field will be reversed when editing.
- Predefined file extension name for the operation.

### 18.1.6. Rename

The Rename screen is only for the panels that support file operations. It allows the user to rename a file in the system.



Press the field and release the pressing to bring out the ASCII characters keypad to specify the new file name. The color of the field will be reversed when editing.

## 18.2. Panel Setup

After the power is applied, the target panel displays Panel Setup screen. The following is an example of Panel Setup screen for the PV070.



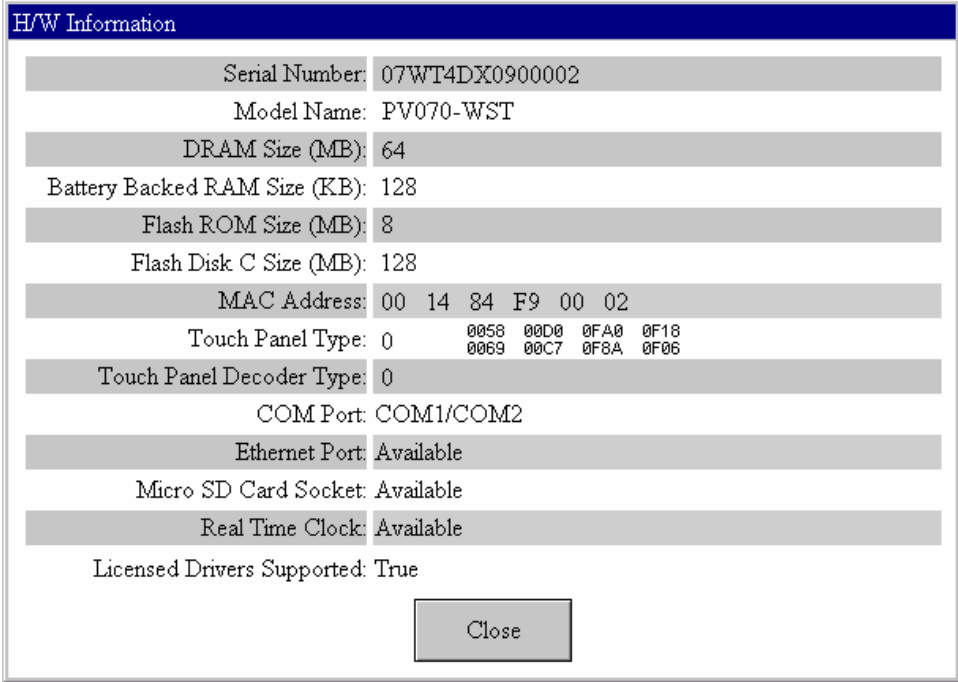
**Note:** Some of the buttons on the Panel Setup screen appear only when they are needed.

**Note:** After the power is on, the target panel won't display Panel Setup screen if the "Run AP After Power On" flag in the General settings is true. It will run the application directly.

The following table describes the function of each button in the Panel Setup screen of the target panel.

Property	Press the button to
English/中文(繁體)/中文(简体)	Display the texts of the screen in the corresponding language.
General	Set the contrast and brightness of the display. Please see <a href="#">Section 18.2.2</a> for details.
Touch Panel	Calibrate the touch panel. Please see <a href="#">Section 18.2.3</a> for details.
Set Time/Date	Set the date and time in the Real Time Clock Chip. Please see <a href="#">Section 18.2.4</a> for details.

Continued

Property	Press the button to
H/W Information	<p>Display hardware information of the target panel. The following is an example of hardware information screen</p>  <p>The screenshot shows a window titled 'H/W Information' with the following details:</p> <ul style="list-style-type: none"> <li>Serial Number: 07WT4DX0900002</li> <li>Model Name: PV070-WST</li> <li>DRAM Size (MB): 64</li> <li>Battery Backed RAM Size (KB): 128</li> <li>Flash ROM Size (MB): 8</li> <li>Flash Disk C Size (MB): 128</li> <li>MAC Address: 00 14 84 F9 00 02</li> <li>Touch Panel Type: 0 (hex: 0058 00D0 0FA0 0F18 0069 00C7 0F8A 0F06)</li> <li>Touch Panel Decoder Type: 0</li> <li>COM Port: COM1/COM2</li> <li>Ethernet Port: Available</li> <li>Micro SD Card Socket: Available</li> <li>Real Time Clock: Available</li> <li>Licensed Drivers Supported: True</li> </ul> <p>A 'Close' button is located at the bottom right of the window.</p>
Link 1 ~ Link 4	Set the parameters for the communications between the target panel and PLC/Controllers. Please see <a href="#">Section 18.2.5</a> or <a href="#">Section 18.2.6</a> for details.
LAN Printer Address	Specify the IP address of the network printer. Please see <a href="#">Section 18.2.7</a> for details.
Copy AP to HMI	Copy the application to another HMI
Copy AP to File	Save the system programs and the application runtime data in a PRP file. The file can be used by the software and compatible target panels.
Copy File	Copy one file to the other.
Format Disk C	Format built-in flash disk(C:). This operation requires a user level of 8 or higher.
FTP Site	Assign the user name and the permission of the file operations for the target panel as a FTP site. Please see <a href="#">Section 18.2.8</a> for details.
Boot from File	Load-and-run the system programs and the application runtime data from a PRP file. The original system programs and runtime data are intact. The loaded system programs and the runtime data will be lost after power off.
Update from File	Update the system programs and the application runtime data from a PRP file. The original system programs and the application runtime data are replaced by the new ones.
Clear Recorded Data	Clear the data stored in the battery backed RAM, which include operation history, alarm history, alarm counts, and the data collected by data loggers. This operation requires a user level of 7 or higher.
Run	Start running the application. If login is required, the operator must enter a valid password of any user level before the target panel displays the first screen. The user level of the password you enter turns to be the current user level. Any operation that is required a user level higher than current user level won't work when the application is running.



### 18.2.1. Entering Panel Setup Mode

Sometimes, you need to put the target panel into Panel Setup Mode in order to set up the target panel. Let's learn how to enter Panel Setup Mode when the application is running:

**Step 1:**

Pin-point the upper-left corner of the screen. If successful, there will be a square blinking once on the corner.

**Step 2:**

Pin-point the upper-right corner of the screen. If successful, there will be a square blinking once on the corner.

**Step 3:**

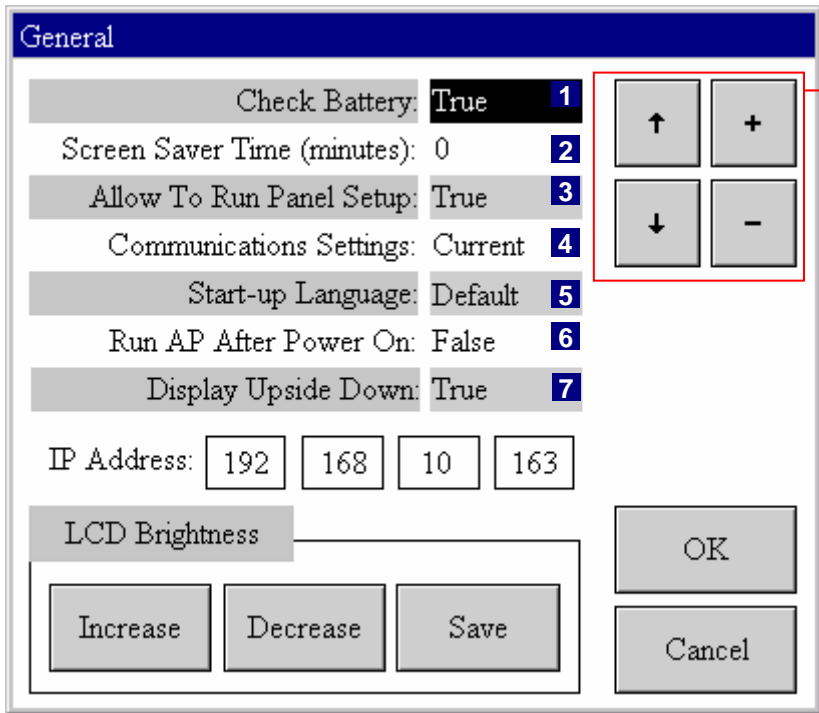
Pin-point the upper-left corner of the screen. If successful, there will be a square blinking once on the corner.





Only after pin-pointing left-right-left corner of the screen successfully, you can get the target panel into Panel Setup Mode.

**Note:** If the above procedures do not work, you need to check whether Allow To Run Panel Setup flag in General Settings screen is True or not. If the flag is False, the target panel is not allowed to run panel setup.

### 18.2.2. General Settings

You may press the General button on the Panel Setup screen to bring up the General screen and then do the settings in it. The following is an example of the General screen.



Item	Press the button to
	Move the selection in 7-6-5-4-3-2-1-7 sequence. And the current data entry object is highlighted.
	Move the selection in 1-2-3-4-5-6-7-1 sequence. And the current data entry object is highlighted.
	Adjust the selection or increase the value of the current data entry object.
	Adjust the selection or decrease the value of the current data entry object.

The following table describes each property in the General screen.

Property	Description
Check Battery	Select True if you want the panel to check the battery before running the application. If the battery check failed, there will be an error message "Battery backed RAM data error! All recorded data are cleared!" on the screen. The default setting is True.
Screen Saver Time(minutes)	Enter a number between 0 and 60 to specify the time that the panel turns off the back light of the display if the touch panel has not been touched for that amount time. The unit of time is minute. This is for lengthening the life of the CCFT back light. If you set "Screen saver time" to 0, the panel never turns off the back light.
Allow To Run Panel Setup	Select true if you want to exit the running application and enter the panel setup mode.

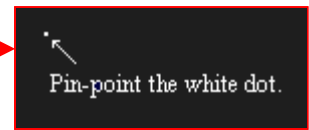
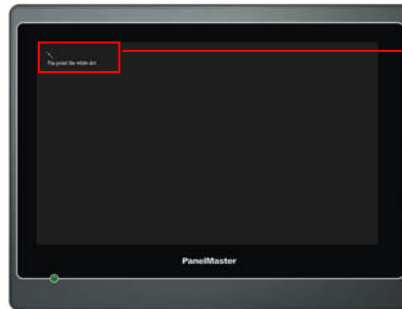
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Property		Description
Communications Settings		Select Default if you want to use the communication parameters that are transmitted to the panel along with all other data when you download an application. Or select Current to use the communication parameters which are setting in the target panel. To set up communication parameters, press the Link button on the Panel Setup screen. Please see <a href="#">Section 18.2.5</a> or <a href="#">Section 18.2.6</a> for details.
Start-up Language		Select Default if you want to use the start-up language that is transmitted to the panel along with all other data when you download an application. Or select 1 to 10 as the start-up language.
Run AP After Power On		Select True if you want to run application right after the power is on. The default setting is False.
Display Upside Down		Select True if you want to display the screen upside down. The default setting is False.
IP Address		Press the edit field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.
LCD Brightness	Increase	Click it to increase the LCD brightness.
	Decrease	Click it to decrease the LCD brightness.
	Save	Click it to save the current setting of the LCD brightness.
OK		Click it to close the dialog box and accepts all changes.
Cancel		Click it to close the dialog box and discard all changes.

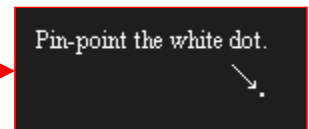
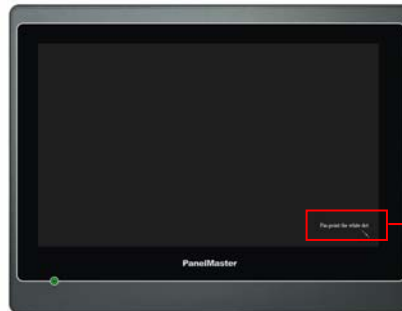
### 18.2.3. Calibrating Touch Panel

To calibrate the touch panel, you may press Touch Panel button on the Panel Setup screen. And then use the following procedure to pin-point the white dots and ok buttons on the screen by a pencil that is not sharp or anything that is soft.

1. Pin-point the white dot on the upper-left corner of the screen.

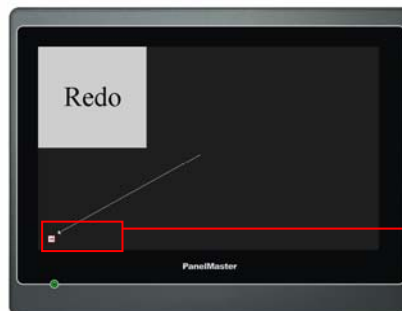


2. Pin-point the white dot on the lower-right corner of the screen.



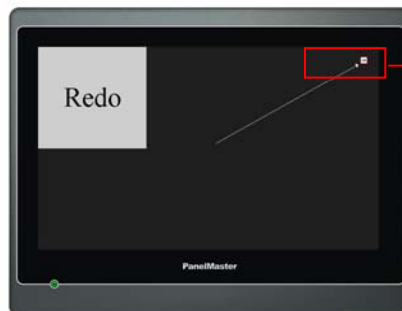
3. You can press the Redo button on the upper-left corner of the screen to go back step 1.

Or pin-point the ok button on the lower-left corner of the screen to go to next step.



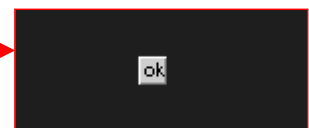
4. You can press the Redo button on the upper-left corner of the screen to go back step 1.

Or pin-point the ok button on the upper-right corner of the screen to go to next step.



5. You can press the Redo button on the upper-left corner of the screen to go back step 1.

Or pin-point the ok button in the center of the screen to complete the calibration.

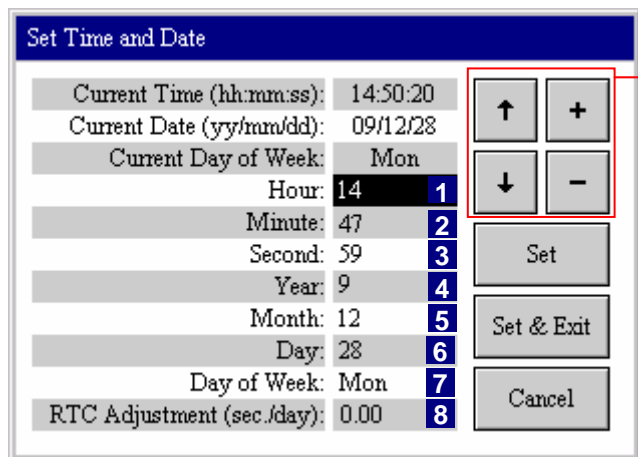


After the calibration is completed. The Panel Setup screen displays again.

**Note:** Do not use anything that is made of metal or is sharp, such as a screw driver or ball pen to pin-point the touch panel.

### 18.2.4. Time and Date Settings

You may press the Set Time/Date button on the Panel Setup screen to bring up the Set Time and Date screen and then do the settings in it. The following is an example of the Set Time and Date screen.



Item	Press the button to
	Move the selection in 8-7-6-5-4-3-2-1-8 sequence. And the current data entry object is highlighted.
	Move the selection in 1-2-3-4-5-6-7-8-1 sequence. And the current data entry object is highlighted.
	Adjust the selection or increase the value of the current data entry object.
	Adjust the selection or decrease the value of the current data entry object.

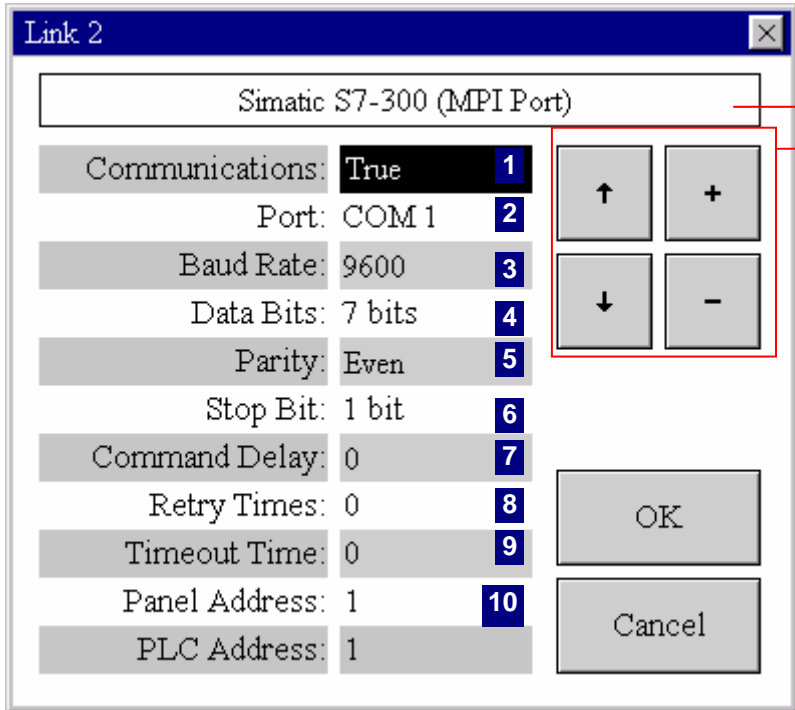
The following table describes each property in the General screen.

Property	Description
Current Time (hh:m:ss)	Displays current time in the Real Time Clock chip.
Current Date (yy/mm/dd)	Displays current date in the Real Time Clock chip.
Current Day of Week	Displays current day of week in the Real Time Clock chip.
Hour	Select an integer value from 0 through 23 representing the hour of the day.
Minute	Select an integer value from 0 through 59 representing the minute of the hour.
Second	Select an integer value from 0 through 59 representing the second of the minute.
Year	Select an integer value from 0 through 99 representing the year.
Month	Select an integer value from 1 through 12 representing the month of the year.
Day	Select an integer value from 1 through 31 representing the day of the month.
Day of Week	Select Mon, Tue, Wed, Thu, Fri, Sat or Sun representing the day of the week.
RTC Adjustment(sec./day)	Set the adjustment in seconds per day to correct the Real Time Clock (RTC).
Set	Save all the changes you made
Set & Exit	Click it to close the dialog box and accepts all changes.
Cancel	Click it to close the dialog box and discard all changes.

## 18.2.5. Link Settings (Serial Port)

This section describes how to set up the communication parameters for the serial communication links using the link screen in the target panel. The default setting in the link screen is transmitted to the target panel along with all other data when you download an application.

You can press the corresponding Link button on the Panel Setup screen to bring out the link screen. If the link is a serial link, the target panel will display serial port parameters screen. The following is an example.



Link 2

Simatic S7-300 (MPI Port)

Communications: True 1

Port: COM 1 2

Baud Rate: 9600 3

Data Bits: 7 bits 4

Parity: Even 5

Stop Bit: 1 bit 6

Command Delay: 0 7

Retry Times: 0 8

Timeout Time: 0 9

Panel Address: 1 10

PLC Address: 1

OK

Cancel

Displays the connected device of this link.

Item	Press the button to
↑	Move the selection in 10-9-8-7-6-5-4-3-2-1-10 sequence. And the current data entry object is highlighted.
↓	Move the selection in 1-2-3-4-5-6-7-8-9-10-1 sequence. And the current data entry object is highlighted.
+	Adjust the selection or increase the value of the current data entry object.
-	Adjust the selection or decrease the value of the current data entry object.

The screen for a serial link appears with the following options:

Property	Description
Communications	Select False if you want to disable the communications between the target panel and the controller. When the communication is disabled, the target panel doesn't communication with the controller but still can display screens.
Port	Select either COM1 or COM2 or COM3 to specify the serial port of the target panel that is connected to the controller. The default setting is COM2.
Baud Rate	The baud rate used.
Data Bits	The number of data bits used.
Parity	The scheme of parity used.
Stop Bits	The number of stop bits used.
Command Delay	If the Command Delay is 0, the communication driver sends the next request immediately to the connected device after it received the reply of the last request. If the Command Delay is nonzero, the communication driver delays the specified time before sending the next request to the connected device.
Retry Count	The number of times that the communication driver will retry to get a successful reply from the connected device for each request. If the number is zero, the communication driver will use a default retry count.
Timeout Time	The maximum time allowed for the communication driver to wait for the reply from the connected device. When the elapsed time exceeds the Timeout Time, the communication driver assumes the communication failed.
Panel Address	The address of the target panel.
PLC Address	The address of the connected device.

### 18.2.6. Link Settings (Ethernet Port)

This section describes how to set up the communication parameters for the Ethernet communication links using the link screen in the target panel. The default setting in the link screen is transmitted to the target panel along with all other data when you download an application.

You can press the corresponding Link button on the Panel Setup screen to bring out the link screen. If the link is an Ethernet link, the target panel will display Ethernet parameters screen. The following is an example.

Displays the connected device of this link.

Item	Press the button to
↑	Move the selection in 4-3-2-1-4 sequence. And the current data entry object is highlighted.
↓	Move the selection in 1-2-3-4-1 sequence. And the current data entry object is highlighted.
+	Adjust the selection or increase the value of the current data entry object.
-	Adjust the selection or decrease the value of the current data entry object.

The screen for an Ethernet link appears with the following options:

Property	Description
Communications	Select False if you want to disable the communications between the target panel and the controller. When the communication is disabled, the target panel doesn't communication with the controller but still can display screens.
Command Delay	If the Command Delay is 0, the communication driver sends the next request immediately to the connected device after it received the reply of the last request. If the Command Delay is nonzero, the communication driver delays the specified time before sending the next request to the connected device.
Retry Count	The number of times that the communication driver will retry to get a successful reply from the connected device for each request. If the number is zero, the communication driver will use a default retry count.
Timeout Time	The maximum time allowed for the communication driver to wait for the reply from the connected device. When the elapsed time exceeds the Timeout Time, the communication driver assumes the communication failed.
Port	Displays the IP port for use
IP Address	Specify the IP address of the connected device. You can press the corresponding field to bring out the Decimal Numeric Keypad to input numbers.
OK	Click it to close the dialog box and accepts all changes.
Cancel	Click it to close the dialog box and discard all changes.

### 18.2.7. LAN Printer Address

To use LAN printer, you need to assign an IP address and a port of the printer on the target panel. You can press the LAN Printer Address button on the Panel Setup screen to bring out the screen. The following is an example.

The LAN Printer Address screen appears with the following options:

Property	Description
IP Address	Specifies the IP address of the connected network printer. You can press the corresponding field to bring out the Decimal Numeric Keypad to input an integer value from 0 through 255.
Port	Specifies the used IP port. You can press the corresponding field to bring out the Decimal Numeric Keypad to input an integer value from 0 through 65535.
OK	Click it to close the dialog box and accepts all changes.
Cancel	Click it to close the dialog box and discard all changes.

### 18.2.8. FTP Site

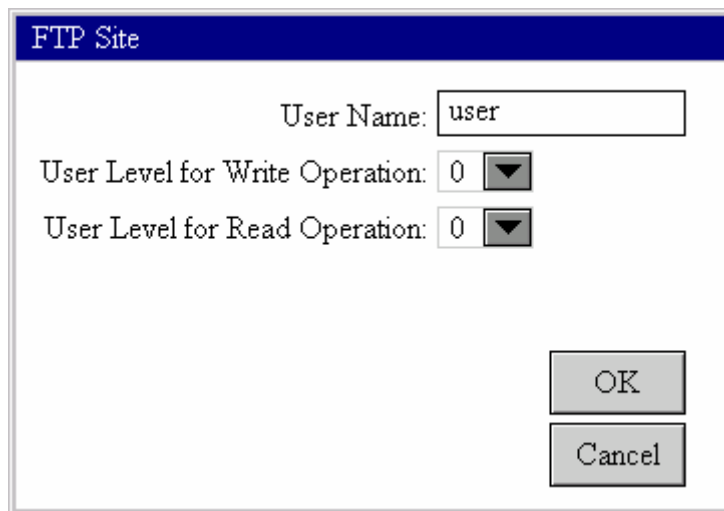
To access files in the target panel from a remote site you need to do the followings:

- 1) Open Internet Explorer (or any other web browser) and type in the site address in the address bar. You will need to type ftp:// and then the IP address of the target panel. For example you can type it as <ftp://192.168.10.163>. To set the IP address of the target panel, please see [Section 18.2.2](#) for details.
- 2) The target panel (FTP site) requires a user name and password to login.  
If the target panel has an application, the user needs to enter a password defined in that application with sufficient user level to enter the FTP site for reading/writing files.  
**Note:** A user that can write files is able to read files too.

If the target panel has no application, the user can remote access the FTP site by using the default password "123".

After you have successfully logged on the target panel (FTP site), you will see the available files that you have permission to access. It will look very similar to your Windows Explorer or My Computer view. From there, you can read and write files from your local hard drive to the target panel (FTP site) and vice versa. Keep in mind that you will need to have the appropriate permissions to do the file operations. These permissions will be assigned to the user account in the target panel (FTP site).

To assign a user name and read/write permissions for the target panel (FTP site), you can press the FTP Site button on the Panel Setup screen to bring out the following sample screen:



The FTP Site screen appears with the following options:

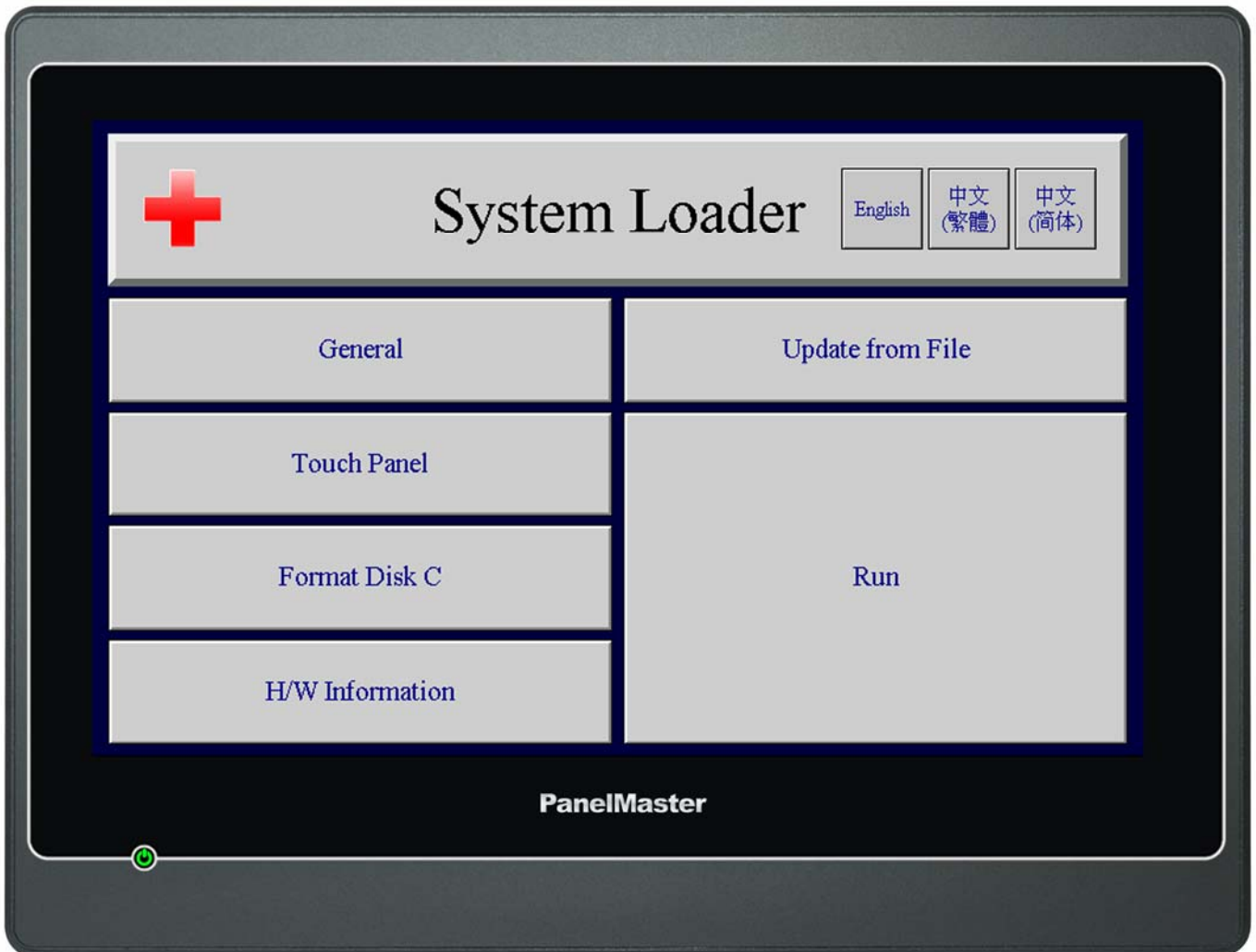
Property	Description
User Name	Specifies the user name for the target panel. You can press the field to bring up the ASCII Character Keypad to input up to 8 ASCII characters. The default user name is "user".
User Level for Write Operation	Specifies the user level that is required to write files into the target panel.
User Level for Read Operation	Specifies the user level that is required to read files from the FTP site.
OK	Click it to close the dialog box and accepts all changes.
Cancel	Click it to close the dialog box and discard all changes.



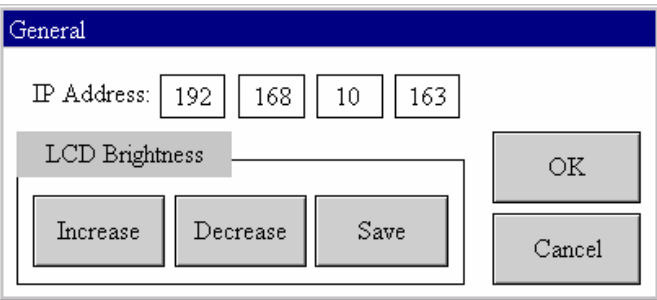
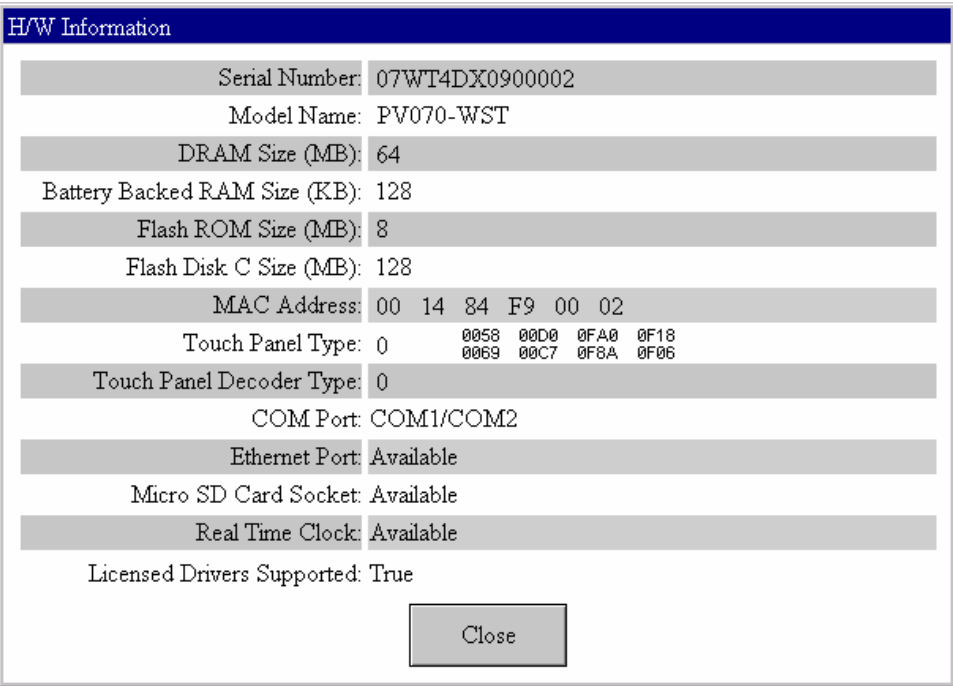
### 18.3. Recovering System by System Loader

When there is a system-critical problem that interferes with the normal operation of the target panel, users may need to boot into system loader mode which allows them to troubleshoot their target panel or update the application. Once you have corrected the problem, then you can reboot and the target panel will run normally.

To get the target panel into system loader mode, press the upper-left corner for 3 seconds when the power is on, if there is a beep sound, release the press which should bring up the System Loader screen as shown below:



The following table describes the function of each button in the System Loader screen of the target panel.

Property	Press the button to															
English/中文(繁體)/中文(简体)	Display the texts of the screen in the corresponding language.															
General	<p>Set the IP address and brightness of the display. The following is an example of the General screen.</p>  <p>The following table describes each property in the General screen.</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>IP Address</td> <td>Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.</td> </tr> <tr> <td rowspan="3">LCD Brightness</td> <td>Increase</td> <td>Click it to increase the LCD brightness.</td> </tr> <tr> <td>Decrease</td> <td>Click it to decrease the LCD brightness.</td> </tr> <tr> <td>Save</td> <td>Click it to save the current setting of the LCD brightness.</td> </tr> <tr> <td>OK</td> <td>Click it to close the dialog box and accepts all changes.</td> </tr> <tr> <td>Cancel</td> <td>Click it to close the dialog box and discard all changes.</td> </tr> </tbody> </table>	Property	Description	IP Address	Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.	LCD Brightness	Increase	Click it to increase the LCD brightness.	Decrease	Click it to decrease the LCD brightness.	Save	Click it to save the current setting of the LCD brightness.	OK	Click it to close the dialog box and accepts all changes.	Cancel	Click it to close the dialog box and discard all changes.
Property	Description															
IP Address	Press the field and bring up the Numeric keypad to input the IP address. Each IP byte can be the value between 0 and 255.															
LCD Brightness	Increase	Click it to increase the LCD brightness.														
	Decrease	Click it to decrease the LCD brightness.														
	Save	Click it to save the current setting of the LCD brightness.														
OK	Click it to close the dialog box and accepts all changes.															
Cancel	Click it to close the dialog box and discard all changes.															
Touch Panel	Calibrate the touch panel. Please see <a href="#">Section 18.2.3</a> for details.															
Format Disk C	Format built-in flash disk(C:). This operation requires a user level of 8 or higher.															
H/W Information	<p>Display hardware information of the target panel. The following is an example of hardware information screen</p> 															
Update from File	Update the system programs and the application runtime data from a PRP file. The original system programs and the application runtime data are replaced by the new ones.															
Run	Get into Panel Setup mode.															