

# Hybrid Camera Receiver

## User's Guide

Software Version 1.1 or later

Before operating the unit, please read this manual thoroughly and retain it for future reference.

SNCA-ZX104

**IPELA**

**IPELA HYBRID**

**sloc™**

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# Features

- SNCA-ZX104 is an IPELA HYBRID-compatible hybrid camera receiver.
- The IPELA HYBRID-compatible camera connected to this unit's SLOC port connects to an external network via this unit's LAN port. Also, composite video signals via from a camera are output via this unit's video output terminal.
- Up to 4 IPELA HYBRID-compatible cameras can be connected to this unit.
- An IPELA HYBRID-compatible camera's pan, tilt and zoom, etc., functions can be controlled from a keyboard connected to this unit.
- The Serial PTZ function converts control signals input from the RS-485 port to TCP/IP packets and sends them via a network. Connect a keyboard compatible with the Pelco-D protocol to the RS-485 port.
- You can control up to 255 Serial PTZ-compatible cameras registered to a single SNCA-ZX104.

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## How to Use This User's Guide

This User's Guide explains how to operate this unit from a computer.

The User's Guide is designed to be read on the computer display.

This section gives tips on making the most of the User's Guide—read it before you operate the unit.

### Jumping to a related page

When you read the User's Guide on the computer display, you can click on a sentence to jump to a related page.

### Software display examples

Note that the displays shown in the User's Guide are explanatory examples. Some displays may be different from the ones that appear in actual use.

### Printing the User's Guide

Depending on your system, certain displays or illustrations in the User's Guide, when printed out, may differ from those that appear on your screen.

### Installation Manual (printed matter)

The supplied Installation Manual describes the names and functions of parts and controls of this unit, connection examples, and how to set up the unit. Be sure to read the Installation Manual before hand.

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## System Requirements

As of August 2012, the following computing environment is necessary to access and operate this unit.

### OS

Windows XP Professional

Windows Vista Ultimate

Windows Vista Business

Windows 7 Ultimate

Windows 7 Professional

Windows XP and Windows Vista 32-bit versions and

Windows 7 32-bit and 64-bit versions are supported.

### Web Browser

Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0

The Preparation section explains what the administrator has to prepare after installing and connecting the unit but before setting the Serial PTZ function.

## Assigning the IP Address to the Unit

To connect the unit to a network, you need to assign a new IP address to the unit when you install it for the first time.

You can assign an IP address by using SNC toolbox, which is stored on the supplied CD-ROM (see page 5).

This section explains how to assign an IP address to the unit using the supplied setup program and how to configure the network.

Before starting, connect the unit, referring to “Connection” in the supplied Installation Manual. Consult the administrator of the network about the assigned IP address.

### Notes

- SNC toolbox may not operate correctly if you use a personal firewall or antivirus software in your computer. In that case, disable the software.
- If you are using Windows XP Service Pack 2 or later, Windows Vista or Windows 7, disable the Windows Firewall function. Otherwise SNC toolbox will not operate correctly. For the setting, see “Configuring Windows Firewall” in “When using Windows XP Service Pack 2 or later” on page 7, “Configuring Windows Firewall” in “When using Windows Vista” on page 9 or “Configuring Windows Firewall” in “When using Windows 7” on page 12.

## Assigning an IP address using SNC toolbox

- 1 Insert the CD-ROM in your CD-ROM drive. A cover page appears automatically in your Web browser. If it does not appear automatically in the Web browser, double-click the index.htm file on the CD-ROM.

When you are using Windows Vista or Windows 7, the “Auto play” pop-up may appear. For details, see “Installing software” in “When using Windows Vista” on page 8 or “Installing software” in “When using Windows 7” on page 11.

- 2 Click the **Setup** icon of **SNC toolbox**. The **File Download** dialog opens.

When you are using Windows XP Service Pack 2 or later, Windows Vista or Windows 7, a message regarding the active contents may appear. For details, see “Installing software” in “When using Windows XP Service Pack 2 or later” on page 7, “Installing software” in “When using Windows Vista” on page 8 or “Installing software” in “When using Windows 7” on page 11.

- 3 Click **File Open**.

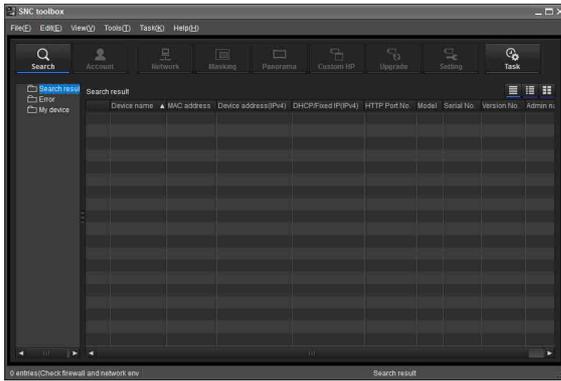
### Note

If you click “Save” on the “File Download” dialog, you will not be able to perform set up correctly. Delete the downloaded file, and click the **Setup** icon again.

- 4 Install SNC toolbox on your computer using the wizard. If the Software License Agreement is displayed, read it carefully and click **Accept** to continue with the installation.
- 5 Start SNC toolbox.

When you are using Windows Vista, the message “User Account Control – An unidentified program wants access to your computer” may appear. In this case, click **Allow**.

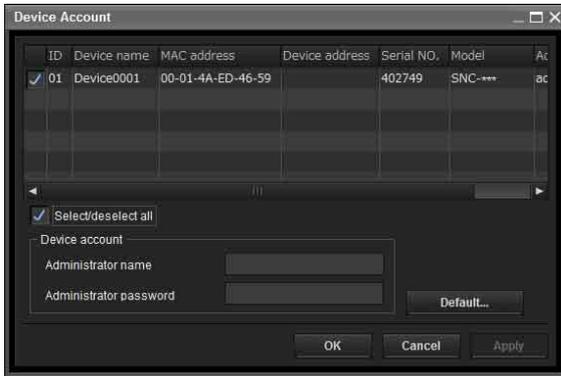
- 6 Click **Search**. SNC toolbox detects this unit or the camera connected to the local network and lists them.



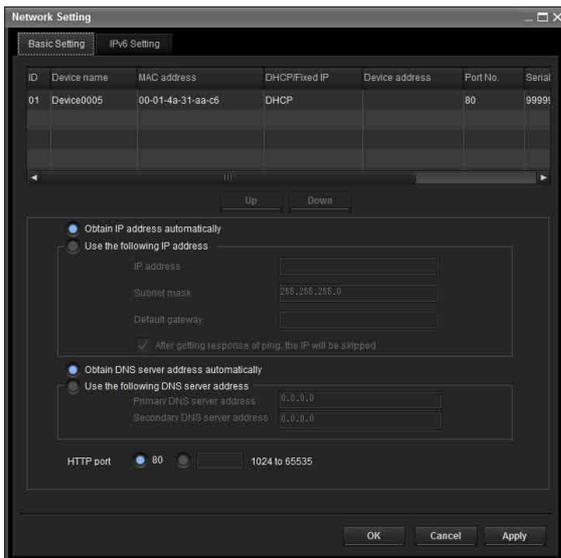
### Tip

The factory setting of this unit's network protocol is DHCP.

- 7 Select a unit to which you want to assign an IP address from the list and click **Network**. The account settings screen is displayed.



- 8 Register the name and password of the administrator and click **OK**. The factory settings for both items are "admin." The **Network Setting** screen is displayed.



- 9 Set the IP address.

**To obtain the IP address automatically from a DHCP server:**

Select **Obtain an IP address automatically**.

The IP address, Subnet mask and Default gateway are assigned automatically.

### Note

When you select **Obtain an IP address automatically**, make sure that the DHCP server is operating on the network.

**To specify the IP address manually:**

Select **Use the following IP address**, and type the IP address, Subnet mask and Default gateway in the relevant boxes.

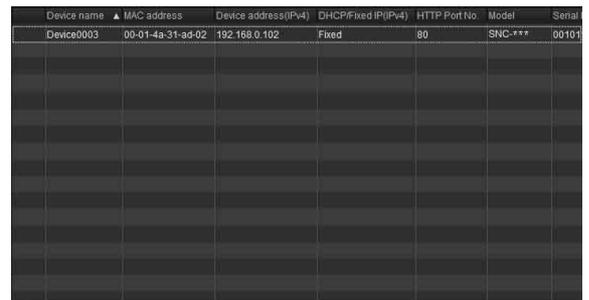
- 10 Set the HTTP port No. Normally, select **80** for the HTTP port No. To use another port number, type a port number between 1024 and 65535 in the text box.

### Note

- To use other than port 80 for this unit, check with the network administrator first.
- The DNS server address setting that appears for this unit cannot be used.

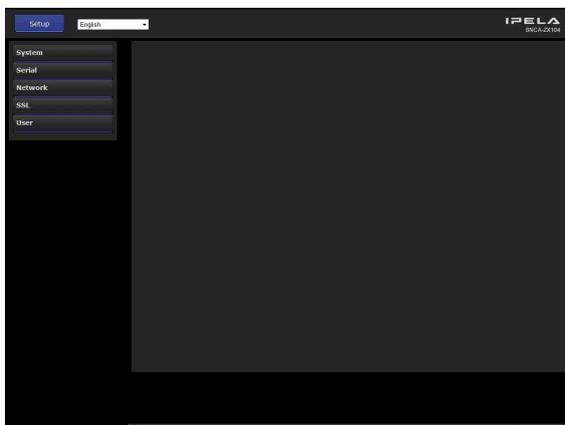
- 11 Confirm that all items are correctly set, then click **OK**. If "Setting OK" is displayed, the IP address is correctly assigned.

- 12 This unit can be directly accessed after settings have been completed by double-clicking it in the list.



The setting window of this unit is displayed on the Web browser.

## Display sample



### Note

If the IP address is not set correctly, the setting window does not appear after step 12. In that case, try to set the IP address again.

## When using Windows XP Service Pack 2 or later

### Installing software

A warning message regarding the active contents may appear when you install software such as SNC toolbox from CD-ROM. In this case, operate as follows:

Example: In case of SNC toolbox

If message “Internet Explorer” appears, click **Yes**.



If the message “File Download – Security Warning” appears, click **Run**.



### Note

If you select **Save** in the “File Download – Security Warning” dialog, you will not be able to perform the installation correctly. Delete the downloaded file, and click the **Setup** icon again.

If the message “Internet Explorer – Security Warning” appears, click **Run**.



The software installation starts.

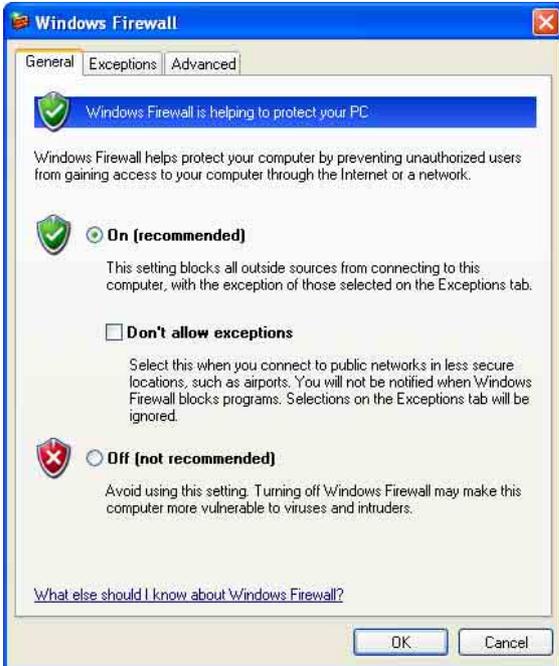
### Configuring Windows Firewall

SNC toolbox may not operate correctly depending on the configuration of Windows Firewall. (This unit may not be listed even if it is detected.) In this case, confirm the Windows Firewall configuration as follows:

Example: In case of SNC toolbox

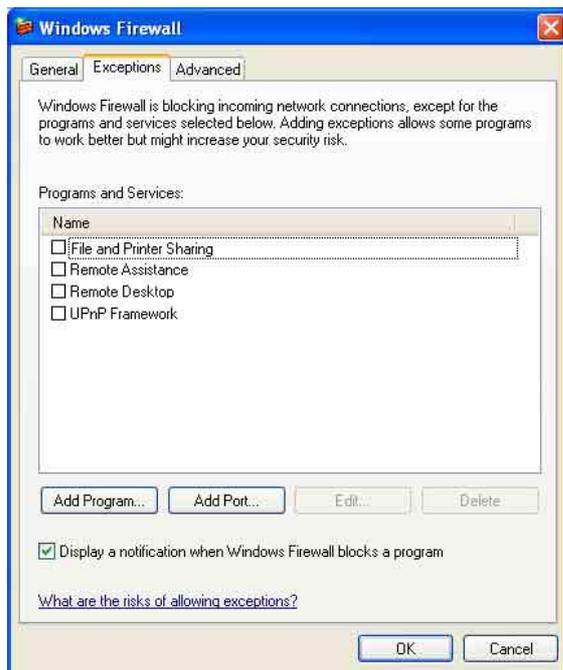
- 1 Select **Control Panel** from the Start menu of Windows.
- 2 Select **Security Center** of the working field.

- 3** Select **Windows Firewall** and select **Off** in the Windows Firewall dialog.



This unit will be listed.  
If you want to keep Windows Firewall **On**, continue with the following steps.

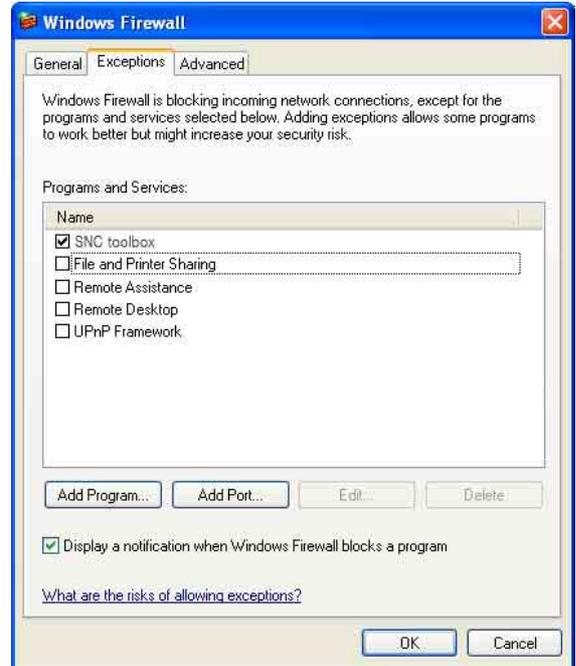
- 4** Select the “Exceptions” tab.  
**5** Click **Add Program...**



- 6** In the Add Program dialog, select **SNC toolbox** and click **OK**.

SNC toolbox is added to the Programs and Services list.

- 7** Click **OK**.



When the above procedure is completed, the unit connected to the local network is displayed in SNC toolbox.

## When using Windows Vista

### Installing software

A warning message regarding the active contents may appear when you install SNC toolbox from the CD-ROM. In this case, operate as follows:

If the pop-up “AutoPlay” appears when a CD-ROM is inserted into the CD-ROM drive, click **Install or run program**.



#### Note

If you click **Open folder to view files**, the Web browser will not open automatically. In this case, double-click the “index.htm” file in the CD-ROM.

If the message “Internet Explorer” appears, click **Yes**.



If the message “File Download – Security Warning” appears, click **Run**.



#### Note

If you select **Save** in the “File Download – Security Warning” dialog, you will not be able to perform installation correctly. Delete the downloaded file, and click the Setup icon again.

If the message “Internet Explorer – Security Warning” appears, click **Run**.



If the message “User Account Control – An unidentified program wants access to your computer” appears, click **Allow**.

The software installation starts.

### Starting the software

When you start SNC toolbox, the message “User Account Control – An unidentified program wants access to your computer” may appear. In this case, click **Allow**.

### Configuring Windows Firewall

SNC toolbox may not operate correctly depending on the configuration of Windows Firewall. (This unit may not be listed even if it is detected.) In this case, confirm the Windows Firewall configuration as follows:

- 1 Select **Control Panel** from the Start menu of Windows.
- 2 Click **Windows Firewall**.
- 3 Select **Turn Windows Firewall on or off**. “User Account Control – Windows needs your permission to continue” may appear. In this case, click **Continue**.

- 4 Select **Off** in the “General” tab.



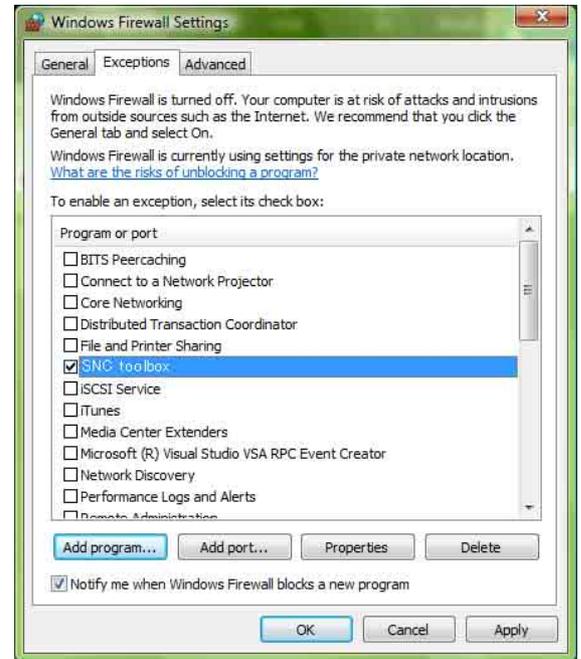
This unit will be listed.  
If you want to keep Windows Firewall **On**, continue with the following steps.

- 5 Select the “Exceptions” tab.  
6 Click **Add a Program...**  
7 If the **Add a Program** dialog appears, select **SNC toolbox** and click **OK**.



SNC toolbox is added to the Program or port list.

- 8 Click **OK**.



When the above procedure is completed, the unit connected to the local network is displayed in SNC toolbox.

## When using Windows 7

### Installing software

A warning message regarding the active contents may appear when you install SNC toolbox from the CD-ROM. In this case, operate as follows:

If the pop-up “AutoPlay” appears when a CD-ROM is inserted into the CD-ROM drive, click **Install or run program from your media**.



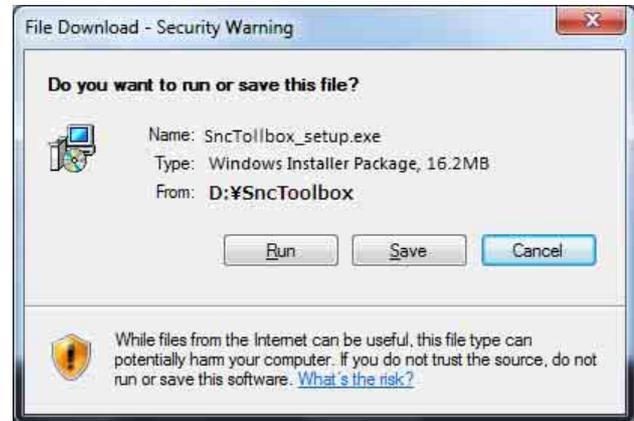
#### Note

If you click **Open folder to view files**, the Web browser will not open automatically. In this case, double-click the “index.htm” file in the CD-ROM.

If the message “Internet Explorer” appears, click **Yes**.



If the message “File Download - Security Warning” appears, click **Run**.



#### Note

If you select **Save** in the “File Download - Security Warning” dialog, you will not be able to perform installation correctly. Delete the downloaded file, and click the Setup icon again.

If the message “User Account Control - Do you want to allow the following program from an unknown publisher to make changes to this computer?” appears, click **Allow**.

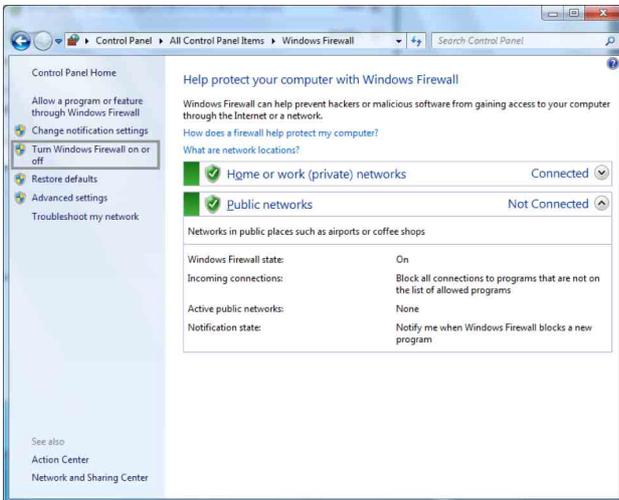
The software installation starts.

## Configuring Windows Firewall

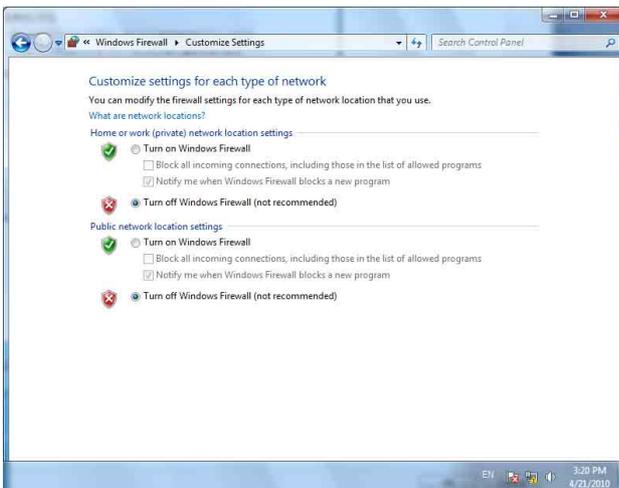
SNC toolbox may not operate correctly depending on the configuration of Windows Firewall. (This unit may not be listed even if it is detected.) In this case, confirm the Windows Firewall configuration as follows:

### To turn Windows Firewall off

- 1 Select **Control Panel** from the **Start** menu of Windows.
- 2 Click **Windows Firewall**.
- 3 Select **Turn Windows Firewall on or off**.



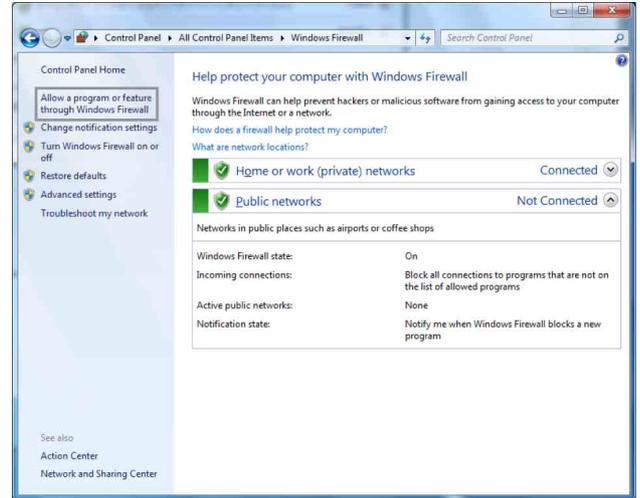
- 4 Select **Disable Windows Firewall**.



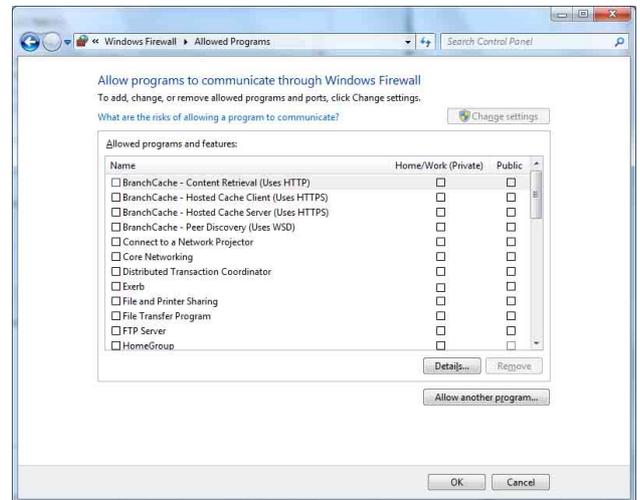
The units will be displayed in the list.

### To turn Windows Firewall on

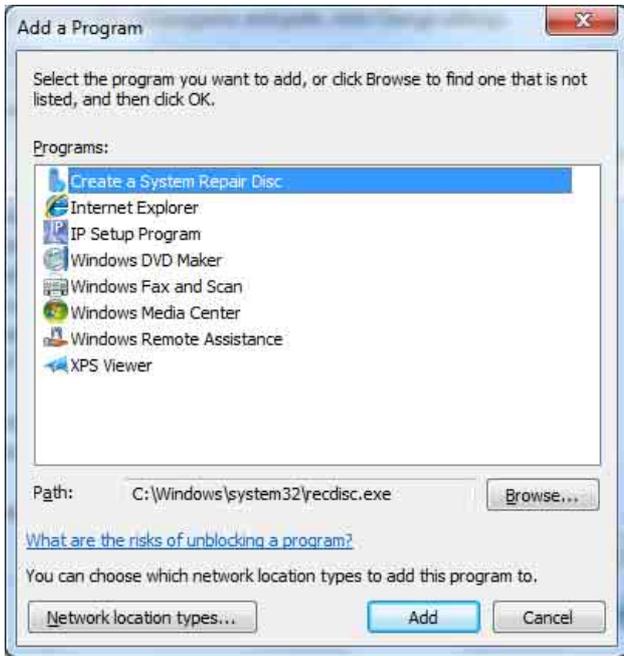
- 1 Select **Control Panel** from the **Start** menu of Windows.
- 2 Click **Windows Firewall**.
- 3 Select **Allow a program or feature through Windows Firewall**.



- 4 Select **Allow another program....**



## 5 Add program.



When the above procedure is completed, the unit connected to the local network is displayed in SNC toolbox.

# Accessing the System Using the Web Browser

After the IP address has been assigned to the unit, check that you can actually access the system using the Web browser installed on your computer.

Use Internet Explorer as a Web browser.

- 1 Start the Web browser on your computer and type the IP address of the unit.

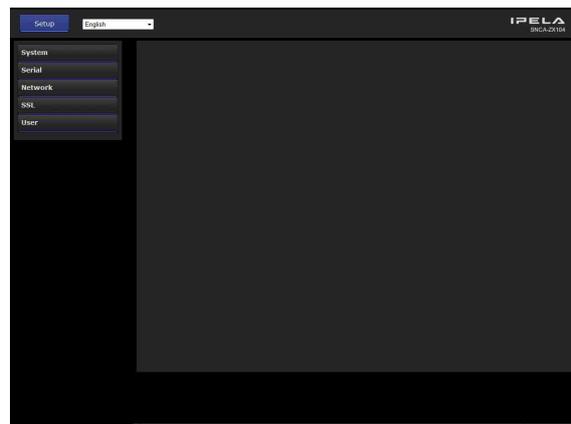


The login window is displayed.



- 2 Enter the user name and password for Administrator.  
The setting window appears.  
The user name “admin” and password “admin” are set at the factory for the Administrator.

## Display sample



## Using the SSL function

### Note

The model on sale in China does not support the SSL function.

### When Internet Explorer 6 is used

“Security Alert” dialog may appear according to the status of the certificate. In this case, click **Yes** to continue.

The setting window is displayed (in SSL communication).



### When Internet Explorer 7 or Internet Explorer 8 is used

When you enter the IP address of the unit, “Certificate Error” may appear according to the status of the certificate set on the unit. In this case, click **Continue to this website (not recommended)**, to continue.

The setting window is displayed (in SSL communication).



### When “Allow HTTP connection for some clients” (page 19) is checked

To use HTTP and SSL connections separately to access, enter the following in the address box of the browser.

### For HTTP connection

Address  http://192.168.0.100/en/index.html

### For SSL connection

Address  https://192.168.0.100/en/index.html

### To display the setting window correctly

To operate the setting window correctly, set the security level of Internet Explorer to **Medium** or lower, as follows:

- 1 Select **Tools** from the menu bar for Internet Explorer, then select **Internet Options** and click the **Security** tab.
- 2 Click the **Internet** icon (when using the unit via the Internet), or **Local intranet** icon (when using the unit via a local network).
- 3 Set the slider to **Medium** or lower. (If the slider is not displayed, click **Default Level**.)

### When using antivirus software, etc., on the computer

- The Web page displayed when you log in to the unit uses JavaScript. The display of the Web page may be affected if you use antivirus software or other software described above on your computer.

## Administering the unit

This section explains how to set the functions of the unit. To set the functions of the unit, use your Web browser (Internet Explorer).

This section explains the basic operations and each option of the Setup menu.

### Note on the display of menu options

The setting menus of this unit will clearly display only the setting options that you can select. Grayed out options cannot be selected.

## Basic Operations of the Setup Menu

### Logging in

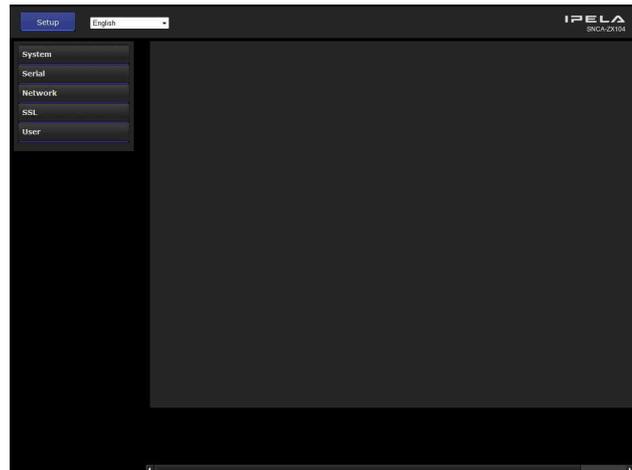
- 1 Start the Web browser on your computer and type the IP address of the unit.



The login window is displayed.



- 2 Enter the user name and password for Administrator.  
The setting window appears.  
The user name “admin” and password “admin” are set at the factory for the Administrator.



### Note

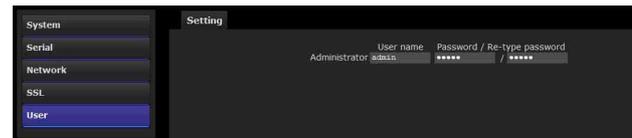
If the setting window does not start correctly, the security level of the Internet Explorer may be set to higher than **Medium**. See “To display the setting window correctly” on page 14 and check the security level.

### Tip

Every page of this software is optimized for Internet Explorer in Medium font.

- 3 Click the menu name (example: User) on the left side of the Setup menu.  
The clicked menu appears.

Example: “User” menu



See pages 16 to 21 for details of the menu tabs and setting options.

- 4 After setting, click **OK**.  
The settings you have made become active.

Click **Cancel** to nullify the set values and return to the previous settings.

### Buttons common to every menu

The following buttons are displayed on all the menus. The functions of the buttons are the same on every menu.



Click this button to confirm the settings.

Cancel

Click this button to nullify the set values and return to the previous settings.

## General notes on menus

- One-byte katakana character is not valid for any text field, such as User name.
- After changing a setting on a menu, wait at least 10 seconds before turning off the power of the unit. If the power is turned off immediately, the new setting may not be stored correctly.

## Language

Set language from pull-down.

## Configuration of the Administrator menu



### System

Displays the System menu. For details, see “Displaying System Information — System Menu” (page 16).

### Serial

Displays the Serial menu for setting Serial PTZ operations. For details, see “Configuring Serial PTZ Operations — Serial Menu” (page 17).

### Network

Displays the Network menu for setting the network connection. For details, see “Configuring the Network — Network Menu” (page 18).

### SSL

Displays the SSL menu for performing SSL communication between the client device and unit. (“Setting the SSL function — SSL Menu” on page 19)

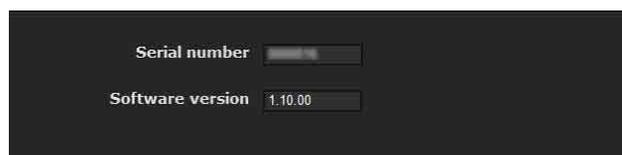
### User

Displays the User menu for setting the log in user name and password. (“Setting the User — User Menu” on page 21)

# Displaying System Information — System Menu

When you click **System** in the Administrator menu, the System menu appears.

## System Tab



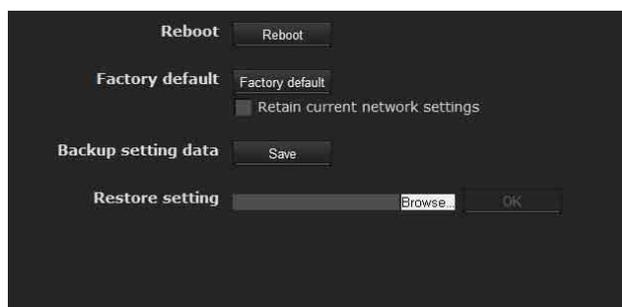
### Serial number

The serial number of the unit is displayed.

### Software version

The software version of this unit is displayed.

## Initialize Tab



### Reboot

Used when rebooting the system. Click **Reboot**, and the message “This System will be rebooted. Are you sure?” appears. Click **OK** to reboot the unit. It takes about two minutes to restart.

### Factory default

Resets the unit to the factory settings.

### Retain current network settings

When this item is checked, only the current network settings will be retained after reset. Click **Factory default**, and the message “Setup data will be initialized. Are you sure?” appears. When you click **OK**, the network indicator on the unit starts to blink. After adjustments of the default settings have finished, the unit reboots automatically. Do not turn off the unit until the unit reboots.

### Tip

The unit can also be reset to the factory settings by turning on the power of this unit while pressing the reset button on the unit. For details, see the supplied Installation Manual.

### Backup setting data

Saves the setting data of the unit in a file. Click **Save**, and follow the instructions on the Web browser to specify the folder and save the setting data of the unit. The file name preset at the factory is “snca-zx104.cfg.”

### Restore setting

Loads the stored setting data of the unit. Click **Browse** and select the file in which the setting data is stored. Click **OK**, and the unit is adjusted according to the loaded data, and restarted.

### Note

With **Restore setting**, some items in the Network menu (page 18) cannot be restored.

## Configuring Serial PTZ Operations — Serial Menu

When you click **Serial** in the Setup menu, the Serial menu appears.

Use this menu to perform settings related to sending commands to a camera over a network connection when receiving analog camera-controlling Pelco-D protocol commands via the RS-485 port. Also set devices connected to this system accordingly.

RS485 baud rate: 2400 baud

Camera list: Backup camera list Save

Restore camera list: Browse OK

Camera No. IP address Port

Camera No.	IP address	Port
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

### RS485 baud rate

Select from 1200, 2400, 4800 or 9600.

### Camera list

This list is for converting the camera numbers included within commands received via the RS-485 port into IP address and port numbers.

### Backup camera list

Saves this unit’s camera list to a file. Click **Save...**, and follow the instructions on the Web browser to specify the folder and save the unit’s camera list.

### Restore camera list

Restores a camera list to this unit that has been saved to a file. Click **Browse...** and select the file in which the camera list is stored. Click **OK** to load the selected file and update the camera list.

**Note**

When you click **OK** next to **Browse...**, the camera list is immediately updated. It is unnecessary to click **OK** at the bottom of the screen.

**To edit the camera list**

Set the IP address and port number for each camera number.

**Camera No.:** Select from camera 1 to 255.

**IP address:** Display the selected camera's IP address. Click to input the value.

**Port:** Display the selected camera's port number. Click to input the value.

**Set:** When clicked, the entered address and port number values are applied to the selected camera if there are no errors for either value.

**Delete:** When clicked, the selected camera's IP address and port number settings are deleted.

**Note**

When you click **Set**, the selected camera's settings are immediately updated in the camera list, but these settings are not saved until you click **OK** at the bottom of the screen.

**OK/Cancel**

See "Buttons common to every menu" on page 15.

## Configuring the Network

### — Network Menu

When you click **Network** in the Setup menu, the Network menu appears.

Use this menu to configure the network to connect the unit and the computer.

The screenshot shows the Network Menu configuration interface. It includes the following fields and options:

- MAC address:** 54:53:ed:91:da:4e
- Ethernet status:** 100Full
- IPv4 setting:**
  - IP address:** Obtain an IP address automatically (DHCP) (selected) or Use the following IP address.
  - IP address (manual):** 192.168.1.193
  - Subnet mask (manual):** 255.255.255.0
  - Default gateway (manual):** 192.168.1.254
- HTTP port number:** 80 (range: 1024 to 65535)
- IPv6 setting:** On (selected) or Off.
- IPv6 address:** Obtain an IPv6 address automatically (selected) or Use the following IPv6 address.
- IPv6 address (manual):** ::
- Prefix (manual):** 0 (range: 0 to 128)
- Default gateway (manual):** [empty field]

**MAC address**

Displays the MAC address of the system.

**Ethernet status**

Displays the current transmission rate.

**IPv4 setting**

Configure the IPv4 network setting.

**IP address**

Configure the IP address.

**Obtain an IP address automatically (DHCP):** Select this option when a DHCP server is installed on the network to allow IP address assignment. With this setting, the IP address is assigned automatically.

**Use the following IP address:** Select this option when you set a fixed IP address. With this setting, specify the **IP address**, **Subnet mask** and **Default gateway** manually.

**Note**

When you select **Obtain an IP address automatically (DHCP)**, make sure that a DHCP server is operating on the network.

**IP address**

Type the IP address of the system.

**Subnet mask**

Type the subnet mask.

### Default gateway

Type the default gateway.

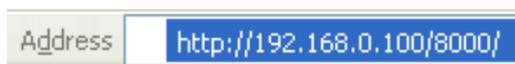
### HTTP port number

Normally select **80**. If you want to use a port number other than 80, select the text box and type a port number between 1024 and 65535.

#### Note

When you have set the **HTTP port number** to a number other than 80 in the Network menu or in SNC toolbox, access the system again by typing the IP address of the unit on your Web browser as follows:

Example: Setting port number 8000 when IP address is 192.168.0.100



### IPv6 setting

Configure the IPv6 network settings. IPv6 can be used simultaneously with IPv4. Only IPv6-specific details are explained here. For common details, see “IPv4 setting” on page 18.

#### On/Off

To use IPv6, select **On**.

#### Prefix

Enter the Prefix value. (0 to 128)

#### OK/Cancel

See “Buttons common to every menu” on page 15.

## Setting the SSL function — SSL Menu

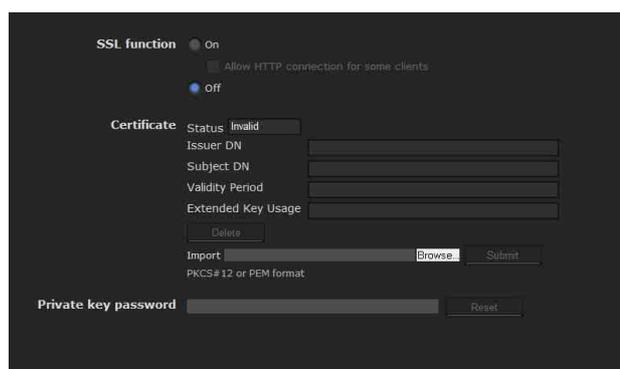
When you click **SSL** in the Setup menu, the SSL menu appears.

Use this menu to configure the SSL or TLS function. (called “SSL” hereafter) The settings allows the unit to communicate with the client PC by using SSL.

#### Note

The model on sale in China does not support the SSL function.

### Setting tab



### SSL function

**On:** Select this to use the SSL function. When **Allow HTTP connection for some clients** is selected, both HTTP and SSL connections are allowed. When **Allow HTTP connection for some clients** is not selected, only SSL connection is allowed.

#### When Microsoft Internet Explorer Ver.6.0 is used

When SSL session is established,  appears in the status bar on your web browser.

#### When Microsoft Internet Explorer Ver.7.0 or Internet Explorer Ver.8 is used

When SSL session is established,  appears in the right of the address bar on your web browser.

**Off:** Select this to not use the SSL function. Only HTTP connection is allowed with the unit.

#### When you use SSL connection for the first time

When you use SSL connection only with the SSL function **On**, you cannot access the unit if the SSL function does not work properly.

In this case, you must reset the unit to the factory settings. (All settings will be initialized.)

To avoid this, check that SSL connection is possible by performing the following steps.

- 1 Set the SSL function to **On**, and select **Allow HTTP connection for some clients**.
- 2 Click **OK** to close the setting window.
- 3 Display the setting window in SSL connection. Refer to “Using the SSL function” on page 14 for connection.
- 4 After checking that SSL connection is possible, cancel **Allow HTTP connection for some clients** selected in step 1.

Even if the setting window or the browser is closed as SSL connection is impossible, http connection will be possible if **Allow HTTP connection for some clients** is selected. First check the setting contents of Setting tab in http connection, then check the SSL connection again.

If **Allow HTTP connection for some clients** is not selected, you will not be able to access the unit if SSL connection becomes impossible. In this case, turn on the power of the main unit while pressing the reset switch on the unit to initialize. For details, refer to the supplied Installation Manual.

#### Notes

- Even if the SSL function is set to **On**, it is not active in the following cases:  
When the certificate and the private key password are not set properly.
- SSL connection may be impossible due to the type of certificate installed in the unit.

## Certificates

Import, display or delete the certificate.

### To import the certificate

Click **Browse...** to select the certificate to be imported. Click **Submit** to import the certificate, and the selected file to the unit.

#### Note

The import process becomes invalid if the selected file is not a certificate or the imported certificate is not allowed. The PKCS#12 and PEM formats are supported.

### To display certificate information

When the certificate has been set in the unit correctly, its information appears on **Status**, **Issuer DN**, **Subject DN**, **Validity Period** and **Extended Key Usage**.

## Status

Shows if the status of the certificate is valid or invalid. The following statuses are recognised.

**Valid:** The certificate is correctly stored and set.

**Invalid:** The certificate is not correctly stored and set.

Possible causes are as follows:

- The private key password included in the certificate is not specified correctly.
- The private key password is specified in spite of the fact that the key pair in the certificate is not encrypted.
- The key pair is not included in the certificate.

#### Note

When the certificate to be imported is of PKCS#12 format and the private key password is not set correctly, <Put correct private key password> is displayed in the boxes of **Issuer DN**, **Subject DN**, **Validity Period** and **Extended Key Usage**. Specify the correct private key password to confirm the information of the certificate.

### To delete the imported certificate

Click **Delete** to delete the certificate imported to the unit.

## Private key password

Type the password for the private key information included in the certificate using up to 50 characters.

Leave the text box blank if the private key information included in the certificate is not encrypted.

If no private key password is set in the unit, an active text field is displayed and this allows a password to be entered.

If a private key password is already set, it is displayed as an inactive text field.

## Reset

To change the private key password, click this button. The current password is cleared and the password text box becomes active to allow a new password entry.

#### Note

Click **Cancel** at the bottom of the menu if you want to cancel changing the private key password after clicking **Reset**. Doing so restores the other setting items in the Setting tab to the previous settings.

## OK/Cancel

See “Buttons common to every menu” on page 15.

#### Note

When you click **OK** after changing SSL setting, close the setting window once.

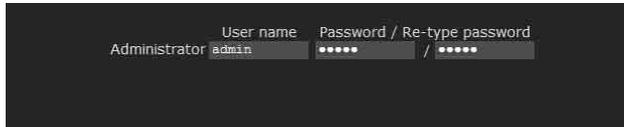
---

# Setting the User

## — User Menu

When you click **User** in the Setup menu, the User menu appears.

Use this menu to set Administrator user names and passwords.



The screenshot shows a dark-themed form with two input fields. The first field is labeled 'Administrator' and contains the text 'admin'. The second field is labeled 'Password / Re-type password' and contains six dots. The labels 'User name' and 'Password / Re-type password' are positioned above their respective fields.

### Administrator

Specify **User name**, **Password** and **Re-type password**.

#### User name

Type a user name between 5 and 16 characters.

#### Password

Type a password between 5 and 16 characters.

#### Re-type password

To confirm the password, retype the password that you typed in the **Password** box.

#### OK/Cancel

See “Buttons common to every menu” on page 15.

This section explains how to use the application software, including the supplied CD-ROM.

## Using the SNC toolbox

Explains the functions except those of the Network tab in SNC toolbox.

To install SNC toolbox, to assign an IP address and to set the network, see “Assigning the IP Address to the Unit” on page 5 in “Preparation.”

### Notes

- SNC toolbox may not operate correctly if you use a personal firewall or antivirus software in your computer. In this case, disable the software.
- If you are using Windows XP Service Pack 2 or later, Windows Vista or Windows 7, disable the Windows Firewall function. Otherwise SNC toolbox will not operate correctly. For the setting, see “Configuring Windows Firewall” in “When using Windows XP Service Pack 2 or later” on page 7, “Configuring Windows Firewall” in “When using Windows Vista” on page 9 or “Configuring Windows Firewall” in “When using Windows 7” on page 12.
- The model on sale in China does not support the SSL function.

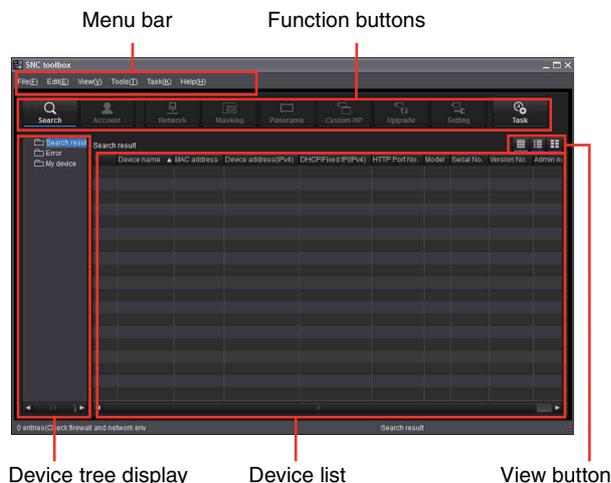
## Starting SNC toolbox

Select **All Programs** from the Start menu of Windows, then select **SNC toolbox** and **SNC toolbox** in sequence. SNC toolbox starts.

The main screen appears. SNC toolbox detects the unit or the camera connected to the local network and lists them on the Network tab window.

When you are using Windows Vista, message “User Account Control – An unidentified program wants access to your computer” may appear. In this case, click **Allow**.

## How to use SNC toolbox



### Menu bar

All functions can be selected from here.

### File (F) menu

**Close:** Exits SNC toolbox.

### Edit (E) menu

**Select All:** Selects all devices in the Device list.

### View (V) menu

**Status Bar:** Switches show/hide of status at the bottom of the screen.

**Column Setting:** Displays the setting screen for the items to display on the list.

### Tools (T) menu

**Search:** Searches again for devices.

**Device Account:** Displays the management screen for user names and passwords related to the device.

**Network Setting:** Displays the screen for modifying the address settings for the selected device.

**Custom Homepage:** Displays the Custom Homepage screen.

### Note

The **Custom Homepage** setting cannot be used with this unit.

**Firmware Upgrade:** Displays the Firmware Upgrade screen.

**Device Homepage:** Connects to the device.

**Tool Log:** Obtains SNC toolbox log.

**Option:** Displays the screen for modifying SNC toolbox settings.

### Help (H) menu

**Version:** Displays SNC toolbox version information.

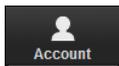
## Function buttons

Function buttons are used for updating lists and displaying dialog.



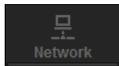
### Search

Updates the Device list in the search result.



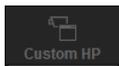
### Account

Sets the administrator for each device.



### Network

Displays the **Network Setting** dialog.



### Custom HP

Displays the **Custom Homepage** dialog.



### Upgrade

Updates the device firmware.

#### Note

The **Custom Homepage** setting cannot be used with this unit.

## Device tree view

This function allows you to customize folders. The registration details of My device can be displayed in tree format.

### Search result folder

When this folder is selected, devices in the same segment detected at time of startup or by **Search** are displayed in the Device list.

### Error folder

When this folder is selected, devices registered in My device folder that can not be connected are displayed in the Device list.

Also, if a registered device is not found on the network, it will also be registered in this folder.

### My device folder

When this folder is selected, devices in the Search result folder or registered manually are displayed in the Device list.

## Device list

Devices registered in the folder selected at Device tree view are displayed in a list.

### Device name

Displays individual device names.

## Status (Only for Error folder and My device folder)

You can check the current connection status.

### MAC address

You can check the MAC address of the device.

### Device address

You can check the IP address of the device.

### HTTP Port No.

You can check the port number of the device.

### DHCP/Fixed IP

Displays whether the IP address of the selected device is DHCP or fixed IP.

### Model

Displays the model name.

### Serial No.

Displays the serial number.

### Version No.

Displays the version of firmware.

### Admin name

Displays the administrator user name.

### IP Address of NIC (Search result folder only)

Displays the IP address of the NIC (Network Interface Card) detected.

#### Tips

- A unit with which SSL communication has been performed will show  on the left side of its IP address.
- The model on sale in China does not support the SSL function.

## View button

You can change the display format of the Device list.

## Registering in My device

The device tree has three folders by default: **Search result**, **Error** and **My device**.

The **Search result** folder and **Error** folder are fixed, so you cannot edit the content or rename the folder.

The **My device** folder can be renamed, and you can add, delete and move folders.

### Search result folder

Displays devices detected by search.

## Error folder

Displays devices that are not connected.

## My device folder

You can sort and manage devices using any folder.

## Adding a folder

- 1 Select the parent folder to which you want to add a folder.
- 2 Right click the mouse and select **Add Folder** from the displayed menu.  
A folder is added. Enter a folder name of your choice.

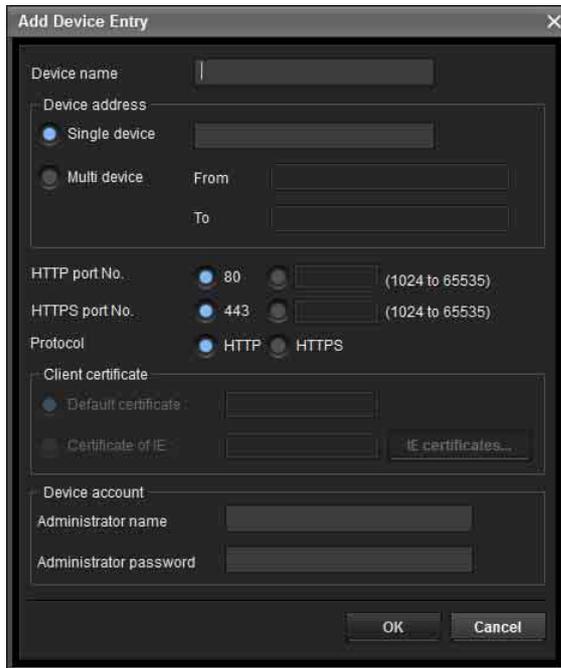
## Registering a device

To register a device, follow the procedure below:

- Registering by **Add Device Entry** dialog
- Registering by drag & drop
- Registering by copy & paste

### Registering by Add Device Entry dialog

- 1 Select the folder to register the device.
- 2 Right click the mouse and select **Add Device Entry** from the displayed menu.  
The **Add Device Entry** dialog appears.



- 3 Enter the following items:  
**Device name:** Enter a device name of your choice.  
**Device address:** Enter the address of the device to register. Normally, select **Single device**. If there is

more than one unit in the specified IP address range then select **Multi device**.

**HTTP port No.:** Normally, 80 should be selected. When setting a value other than 80, select the textbox and enter a port number.

**HTTPS port No.:** Normally select 443. When setting a value other than 443, select the textbox and enter a port number.

**Protocol:** Select communication protocol **HTTP** or **HTTPS**.

**Client certificate:** Set when using the client authentication of the SSL function.

Activates when **HTTPS** is selected.

**Default certificate:** Select Default client certificate of the Network tab from **Option** in the **Tools** menu.

**Certificate of IE:** Press the **IE certificates...** button, then select the certificate registered in the Internet Explorer.

**Device account:** Enter the user name and password of the administrator who will access the device in the **Administrator name** field and **Administrator password** field, respectively.

- 4 Click **OK** to finish registration.

### Registering by drag & drop

To add a device, select a device from the Device list in the Search result folder, and drag & drop to the folder to register it in.

### Registering by copy & paste

Select a device from the Device list in the Search result folder and right click the mouse. Select **Copy** from the displayed menu (or select **Copy** from the **Edit** menu). Next, select the folder to register in and right click the mouse. Select **Paste** from the displayed menu.

### Renaming the device/folder

Select the folder or device to rename and right click the mouse. Select **Rename** from the displayed menu. The device/folder name is highlighted. Enter the new name.

### Deleting a device/folder

Select the device/folder to be deleted from the Device list or Device tree and right click the mouse. Select **Delete** from the displayed menu (or select **Delete** from the **Edit** menu).

### Moving a device/folder

You can move a device/folder by following either of the methods below:

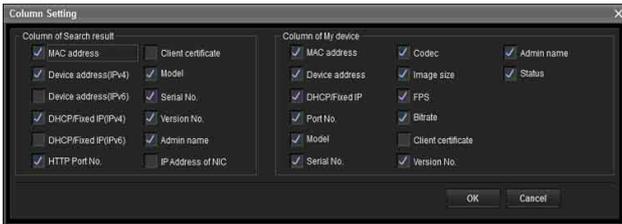
- Select a device/folder from the Device list or Device tree and drag & drop in the folder to move it to, which will move the device/folder.

- Select a device/folder from the Device list or Device tree and right click the mouse. Select **Cut** from the displayed menu (or select **Cut** from the **Edit** menu). Next, select the folder to move to and select **Paste**.

## Changing the Device list display method

### Modifying the items to show on list

Select **Column setting** from the **View** menu to display the “Column Setting” dialog.

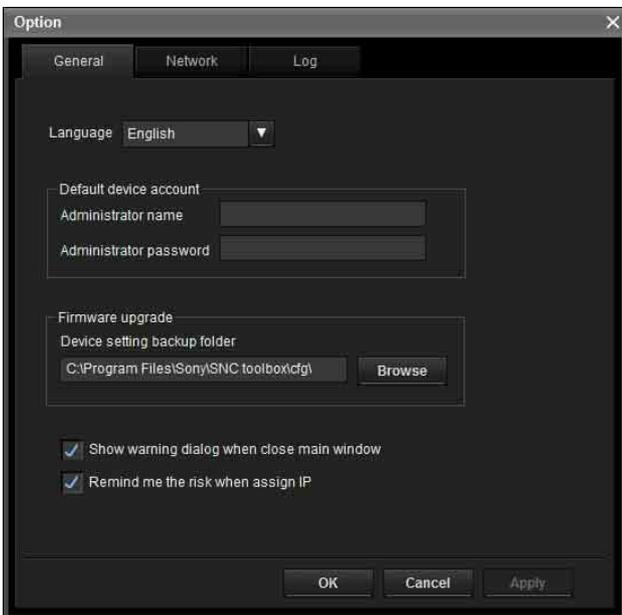


Check the items you want to display and remove the checks from items you want to hide. Click **OK** after making the changes. The new setting is reflected on the list and the display returns to the main screen.

## Setting SNC toolbox options

Select **Option** from the **Tools** menu to display the “Option” dialog. This dialog consists of 3 types: **General**, **Network** and **Log**.

### General tab



**Language**  
Set language.

### Default device account

Set the initial values of user name and password for the administrator accessing the device for each device.

### Firmware upgrade

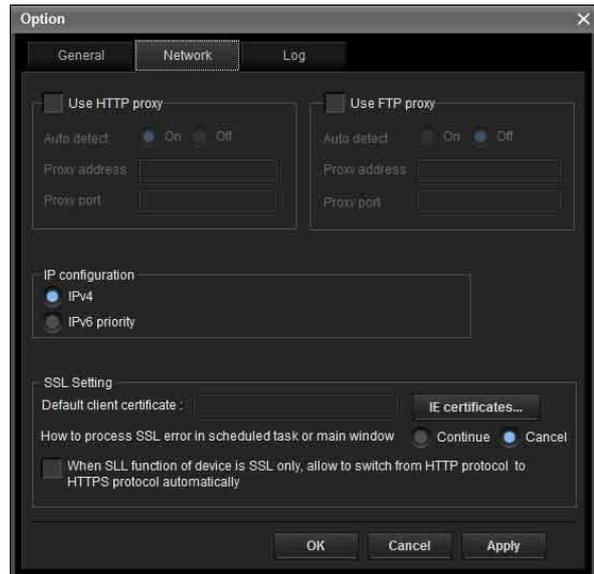
Configure the firmware upgrade.

**Device setting backup folder:** Set the destination to save the configuration file when upgrading. Click **Browse**, and the dialog to select the folder is displayed to allow you to set the folder to save the file.

**Show warning dialog when close main window:** Select to display the warning message.

**Remind me the risk when assign IP:** Select to display the warning message.

### Network tab



Configure the HTTP proxy.

When using HTTP proxy, check **Use HTTP proxy**. To auto-detect the proxy server, select **On** for **Auto detect**.

If you are not auto-detecting the proxy server, select **Off** for **Auto detect**, and enter the proxy address and proxy port number.

### IP configuration

Select the IP address used for the Search result folder.

**IPv4:** Uses IPv4.

**IPv6 priority:** Uses IPv6. Uses IPv4 if IPv6 is not selected.

### SSL Setting

Configure the SSL setting.

**Default client certificate:** Enter the client certificate to use.

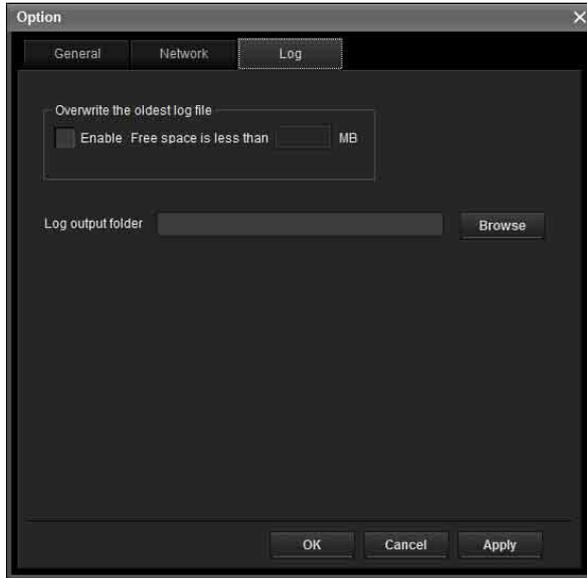
**How to process SSL errors in scheduled task or main window:** Select **Continue** or **Cancel**.

**When SSL function of device is SSL only, allow to switch from HTTP protocol to HTTPS protocol automatically:** Check this box if necessary.

### Notes

- When you have changed the SSL setting, restart the SNC toolbox.
- The model on sale in China does not support the SSL function.

## Log tab



### Overwrite the oldest log file

To set the size of the log file, check **Enable** and specify the minimum required space for a log file.

### Log output folder

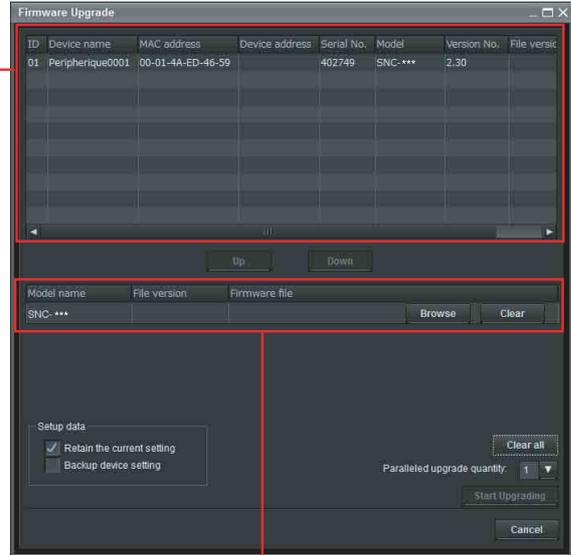
Click **Browse** to display the folder selection dialog. Specify the folder to save the log.

## Using the Firmware Upgrade

Using the Firmware Upgrade function of the SNC toolbox allows you to upgrade the firmware of the device.

### Starting the Firmware Upgrade

- 1 Select the device to upgrade its firmware from the Device list.  
You can select multiple devices at the same time.
- 2 Right click the mouse. Click **Firmware Upgrade** from the displayed menu.  
The Firmware Upgrade screen is displayed.



Device list

Module list

### Tip

The Firmware Upgrade screen can also be displayed using the following method:

- Select **Firmware Upgrade** from the **Tools** menu.

### Device list

Select the device to upgrade.

A progress bar is displayed when upgrading is in process.

The status field shows current status.

### Module list

To display the dialog, click the **Browse** button on the right side of the model to upgrade (listed in the module list). Select the target SVU file from the dialog.

You can select one file for each model.

## Upgrading

- 1 Set the order of devices perform upgrade using **Up** and **Down**.
- 2 Click **Browse** and select an upgrade file for each model.
- 3 Select how many devices to upgrade in **Paralleled upgrade quantity**.
- 4 To back up the device setting, check **Backup device setting**.

### Tip

Select **General** from **Option** in the **Tool** menu to set **Device setting backup folder**.

## 5 Click **Start Upgrading**. Upgrading starts.

### Notes

- To stop upgrading, click **Stop upgrading**.  
To protect some devices, during the process of upgrading, upgrading cannot be canceled.
- Do not turn off the power until the device restarts after upgrading.
- While upgrading a connected camera, do not upgrade this unit.

---

# Glossary

## Default gateway

Device that can be used to access another network.

## DHCP server

Acronym for Dynamic Host Configuration Protocol server. The IP address of a terminal without an individual IP address can be automatically distributed by the Dynamic Host Configuration Protocol (DHCP). The DHCP server assigns the IP addresses to the terminals.

## Digital certificate

An electronic certificate that a CA (Certificate Authority) attests that a public key to cancel a secret code is issued by an authentic publisher.

## DNS server

Acronym for Domain Name System server. As an IP address required for connecting to the device on an IP network is numerical and difficult to remember, the Domain Name System was established. A domain name is alphabetic and is easier to remember. When a client computer uses a domain name to connect to another computer, it asks a DNS server to translate the name into the corresponding IP address. The client computer can then obtain the IP address of the computer to be connected.

## HTTP port

A port used to communicate between the web server and the web client, such as a web browser.

## IP address

Acronym for Internet Protocol Address. An individual IP address is basically assigned to each piece of equipment connected to the Internet.

## MAC address

A network address that uniquely identifies each LAN card.

## Network address

The portion that identifies the local network (subnet) in an IP address.

## Primary DNS server

One of the DNS servers that can first reply to a request by connected devices or other DNS servers.



## **RS-485**

A serial communications standard defined by the EIA (The Electronic Industries Alliance) in the U.S.

## **Secondary DNS Server**

Subsidiary DNS server used when a primary DNS server cannot be used.

## **SLOC**

Abbreviation for Security Link over Coax. SLOC is a technology that enables analog composite video images and digital IP signals to be sent simultaneously using just one coaxial cable. It was developed by Intersil Corporation.

## **SSL**

Acronym for Secure Sockets Layer. This is a protocol developed by Netscape Communications Corporation to be used for communications of encrypted data on the Internet.

## **Subnet mask**

32-bit stream used to distinguish the subnet address from an IP address.



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