

New functions and addendum

- This document contains descriptions of how to set the new functions and their restrictions.
It is recommended to read them while referring to the Operating Instructions provided with this product together.
- Depending on the model used, the screens shown in the explanations may differ to the actual camera screens.
- The model number is abbreviated in some descriptions in this manual.

Due to software upgrade, the following functions have been added and changed to this product.

• **Firmware Ver.2.60**

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1. Change in restrictions on characters for password (Operating Instructions For administrator registration)



The image shows a web form titled "Administrator registration" with a subtitle "Enter the user name and password of the administrator." The form has three input fields: "User name (1 to 32 characters)", "Password (8 to 32 characters)", and "Retype password". Below these fields is a "Set" button. A "Note" section follows, containing seven numbered instructions regarding password and username requirements.

Administrator registration
Enter the user name and password of the administrator.

User name (1 to 32 characters)	<input type="text"/>
Password (8 to 32 characters)	<input type="password"/>
Retype password	<input type="password"/>

Note:

- (1) Distinguish between upper- and lower cases.
- (2) Entry of the following is not allowed as a user name: 2-byte characters, and 1-byte symbols " & ; \
- (3) Entry of the following is not allowed as a password: 2-byte characters, and 1-byte symbols " &
- (4) For the password, use three or more types of characters from upper- and lowercase alphabetic characters, numbers, and symbols.
- (5) Keep the user name and password at hand so as not to lose.
- (6) It is recommended to change the password periodically.
- (7) Set the password which does not include the user name.

[Password (8 to 32 characters)]/[Retype password]

Enter the administrator password.

Available number of characters: 8 - 32 characters

Unavailable characters: 2-byte characters, and 1-byte symbols " &

Note

- Distinguish between upper- and lower cases.
- Use three or more types of characters from upper- and lowercase alphabetic characters, numbers, and symbols.
- Set the password which does not include the user name.

2. [Drawing method], [Decoding Options], [Frame Skip Options (When PC is Heavy Processing Load)] are added to Viewer software

(Operating Instructions Configure the basic settings of the camera [Basic]- Configure the basic settings [Basic])

Automatic installation	<input checked="" type="radio"/> On <input type="radio"/> Off
Drawing method	<input checked="" type="radio"/> GDI <input type="radio"/> Direct2D
H.264 Decoding Options	<input checked="" type="radio"/> Software <input type="radio"/> Hardware Confirm
Smoother live video display on the browser (buffering)	<input checked="" type="radio"/> On <input type="radio"/> Off
H.264 Frame Skip Options (When PC is Heavy Processing Load)	<input checked="" type="radio"/> Auto <input type="radio"/> Manual
Contrast enhancement (RGB:0 to 255)	<input type="radio"/> On <input checked="" type="radio"/> Off
Relay output	Off

Set

[Viewer software (nwcv4Ssetup.exe)] - [Drawing method]

Perform image display settings when displaying camera images with the viewer software.

- **GDI:** The drawing method generally used in Windows.
- **Direct2D:** Can reduce choppy drawing of images.
- **Default:** GDI

IMPORTANT

- Use "Direct2D" with a computer that has the latest graphic driver version installed to it.
- When using "Direct2D", set "Smoother live video display on the browser (buffering)" to "On".
If "Off" is selected for "Smoother live video display on the browser (buffering)", "Direct2D" may not be very effective.

Note

- If your computer's operating system is Windows 7 and the Aero function is disabled, "Direct2D" may not be very effective.
- When "Direct2D" is selected for "Drawing method", video may not be displayed or the displayed image may be seen as it is partially corrupted depending on the PC in use.
- Refer to the Panasonic support website for information of PCs for which "Direct2D" is selectable.
Panasonic website (<https://security.panasonic.com/support/info/> <Control No.: C0313>)

[Viewer software (nwcv4Ssetup.exe)] - [H.264 Decoding Options]

Select the decoding method for H.264 images on the "Live" page.

- **Software:** Decoding is performed by software.
- **Hardware:** Uses the Hardware Acceleration (QSV/DXVA) function that performs fast decoding.
- **Default:** Software

IMPORTANT

- "Hardware" may not be able to be used depending on the computer used.
One of the following messages is displayed when the [Confirm] button is clicked.
 - The hardware decode is available on your PC.
*Depending on your PC environment, Video output may become impossible. In that case it is necessary to select "Software" for "H.264 Decoding Options".
 - The hardware decode is not available on your PC. It is necessary to select "Software" for "H.264 Decoding Options".

Note

- When “Hardware” is selected for “Decoding Options”, video may not be displayed or the displayed image may be seen as it is partially corrupted depending on the PC in use.
- Refer to the Panasonic support website below for information of PCs for which “Hardware” is selectable.

Panasonic website (<https://security.panasonic.com/support/info/> <Control No.: C0313>)

[Viewer software (nwcV4Ssetup.exe)] - [Frame Skip Options (When PC is Heavy Processing Load)]

Perform settings to display camera images on the viewer software.

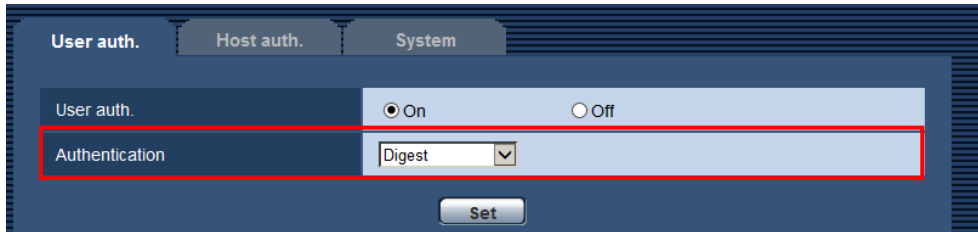
- **Auto:** If there is a delay in displaying images from the camera, the delay can be resolved by automatically skipping frames.
- **Manual:** If there is a delay in displaying images from the camera, frames are not skipped automatically.
- **Default:** Auto

Note

- When “Manual” is selected, “Off”, “1 Frame Skip”, “2 Frames Skip”, “4 Frames Skip”, “6 Frames Skip”, or “8 Frames Skip” can be selected for frame skip by right-clicking on the “Live” page. The value selected here will revert to “Off” when the browser is closed.

3. Change of authentication method default setting

(Operating Instructions Configure the settings relating to the authentication [User mng.] - Configure the settings relating to the user authentication [User auth.]



The screenshot shows a web interface for configuring user authentication. At the top, there are three tabs: 'User auth.', 'Host auth.', and 'System'. The 'User auth.' tab is active. Below the tabs, there are two main sections. The first section, labeled 'User auth.', contains two radio buttons: 'On' (which is selected) and 'Off'. The second section, labeled 'Authentication', contains a dropdown menu with 'Digest' selected. A red rectangle highlights the 'Authentication' dropdown and the 'Set' button located below it.

[Authentication]

Set the user authentication method.

- **Digest or Basic:** Uses “Digest or Basic” authentication.
- **Digest:** Uses “Digest” authentication.
- **Basic:** Uses “Basic” authentication.
- **Default:** Digest

IMPORTANT

■About the system devices (Panasonic network disk recorder and others)

- When connection with a system device cannot be established, upgrade the system device.
- For information on upgrading system devices, refer to the following web site:
<https://security.panasonic.com/support/info/> <Control No.: C0701>
- Support may already be ended for some system devices (discontinuation). In such a case, it may be possible to connect by setting “Basic” for the authentication method of the user authentication.

4. User authentication function for host authentication is added

(Operating Instructions Configure the settings relating to the authentication [User mng.]- Configure the settings relating to the host authentication [Host auth.])

After the host authentication, execute the user authentication according to the setting of the "User auth." (On/Off) to allow the access subject to the authentication.

The screenshot shows the 'Host auth.' configuration page. At the top, there are three tabs: 'User auth.', 'Host auth.', and 'System'. The 'Host auth.' tab is selected. Below the tabs, there are three main sections. The first section is 'Host auth.' with two radio buttons: 'On' and 'Off'. The 'Off' button is selected. Below these buttons is a 'Set' button. The second section is 'IP address' with a text input field. Below it is 'Access level' with three radio buttons: '1. Administrator', '2. Camera control', and '3. Live only'. The '3. Live only' button is selected. Below these buttons is another 'Set' button. The third section is 'Host check' with a dropdown menu showing '[]' and a 'Delete' button.

Note

When "On" is set for "User auth.":

The user authentication is required when connecting to this camera using an IP address set as the host authentication.

When "Off" is set for "User auth.":

The user authentication is not required when connecting to this camera using an IP address set as the host authentication.

However, if accessing to the outside of the access level, the user authentication is required.

IMPORTANT

- With the host set by an old version, the user authentication is not required within the access level even if the "User auth." is "On".

For the host set by an old version, asterisk (*) will be displayed at the beginning of the IP address in the "Host check" field.

5. Change of default setting of “Bandwidth control(bit rate)”

(Operating Instructions Configuring the network settings [Network]- Configure the network settings [Network])

Change of default setting of “Bandwidth control(bit rate)”

The screenshot shows the 'Network' configuration page with the 'Advanced' tab selected. The 'IPv4 network' section includes fields for Network Settings (set to 'Auto(Advanced)'), IP address (192.168.0.10), Subnet mask (255.255.255.0), Default gateway (192.168.0.1), and DNS settings (set to 'Auto'). The 'IPv6 network' section includes fields for Manual (set to 'Off'), IP address, Default gateway, DHCPv6 (set to 'Off'), Primary DNS server address, and Secondary DNS server address. The 'Common' section includes fields for HTTP port (80), Line speed (set to 'Auto'), Max RTP packet size (set to 'Unlimited(1500byte)'), HTTP max segment size(MSS) (set to 'Unlimited(1460byte)'), **Bandwidth control(bit rate)** (set to 51200kbps), Easy IP Setup accommodate period (set to 20min), and FTP access to camera (set to 'Forbid'). A 'Set' button is located at the bottom right.

[Bandwidth control(bit rate)]

Select the total bit rate for data transmission from the following.

Unlimited/ 64kbps/ 128kbps/ 256kbps/ 384kbps/ 512kbps/ 768kbps/ 1024kbps/ 2048kbps/ 4096kbps/ 8192kbps/ 10240kbps/ 15360 kbps/ 20480kbps/ 25600kbps/ 30720kbps/ 35840kbps/ 40960kbps/ 51200kbps

- **Default:** 51200kbps

6. Encryption of the settings

(Operating Instructions Maintenance of the camera [Maintenance] - Settings data/backing up or restoring logs [Data])

The screenshot shows the 'Data' tab in a camera's web interface. It has a top navigation bar with 'System log', 'Upgrade', 'Status', 'Default reset', and 'Data'. The 'Data' tab is active. Below the navigation bar, there are two main sections: 'Backup' and 'Restore'. In the 'Backup' section, there are three rows: 'Setup data' with an 'Execute' button, 'Scene file' with an 'Execute' button, and 'Logs' with an 'Execute' button. In the 'Restore' section, there are two rows. The first row is 'Setup data', which has a file input field with a 'Browse...' button, two radio button options: 'Restore all settings.' and 'Restore all settings except the network settings.' (the second one is selected), and an 'Execute' button. The second row is 'Scene file', which has a file input field with a 'Browse...' button and an 'Execute' button. At the bottom of the interface, there is a light blue box with the text: 'It will take around 2 minutes to complete restoring data. Please wait and do not operate the browser during this process.'

Backup

[Setup data]

Click the [Execute] button to backup the setup data of the camera to a PC.

Note

- The settings backed up after this version of software will be encrypted. Therefore, if using the software of older version, the settings cannot be restored.

7. “Login failure” indication added to the login-related display (Operating Instructions About the displayed system log)

Error indications relating to the login errors

Category	Indication	Description
Login failure	User name	<ul style="list-style-type: none">• The user name that has failed in login will be displayed when “On” is selected for “User auth.”.• If no user is registered, “Guest User” will be displayed.