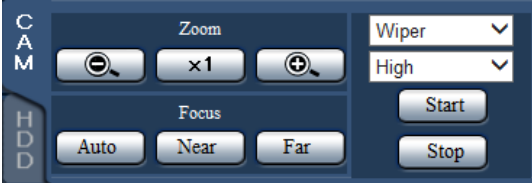# New functions (Software V5.50)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages

Control of the washer and wiper with WV-SUD638 (scheduled to be released in September 2016*[1]) is available. *1: As of July 2016
 	
High : The wiper wipes the glass once every 4 seconds.
Low : The wiper wipes the glass once every 8 seconds.
1 shot : The wiper wipes the glass 5 times.
Washer : Applies a preset action of the washer and wiper.
Refer to the operating instructions of WV-SUD638 for further information.
When the [Start] button is clicked, the selected action will start.
When the [Stop] button is clicked, the action will stop.
 	
Note:
• The following operations are not available during the washer is in action.
  The start and stop operations of the wiper
  Pan/ tilt/ zoom/ focus control
  The start operation of "Auto mode"
  The move operation ([Go]) of "Preset"
 	
• The washer action needs to be set by the camera.
  Refer to the operating instructions of WV-SUD638 for further information.
	Operating Instructions page 31

Details on the new functions	Reference pages

Following error actions are added to "Error logs" and "Notification by e-mail" by Damage notification from WV-SUD638.
 	
• Hardware error notification
   Notification by e-mail, Error log
     CAM xx HARDWARE ERROR
  LCD
     CAMERA xx
     HARDWARE ERROR
  Output from connector
    Camera error output
• Wiper rubber exchange timing notification
  Notification by e-mail
     CAM xx REPLACE WIPER RUBBER
  LCD
     CAMERA xx
     WIPER RUBBER
  Output from connector
    Camera error output
* xx : camera channel
	Operating Instructions
	page 56, page 59
	Setup Instructions
	page 93

New functions (Software V5.10)

Due to software upgrade, the following new functions have become available.

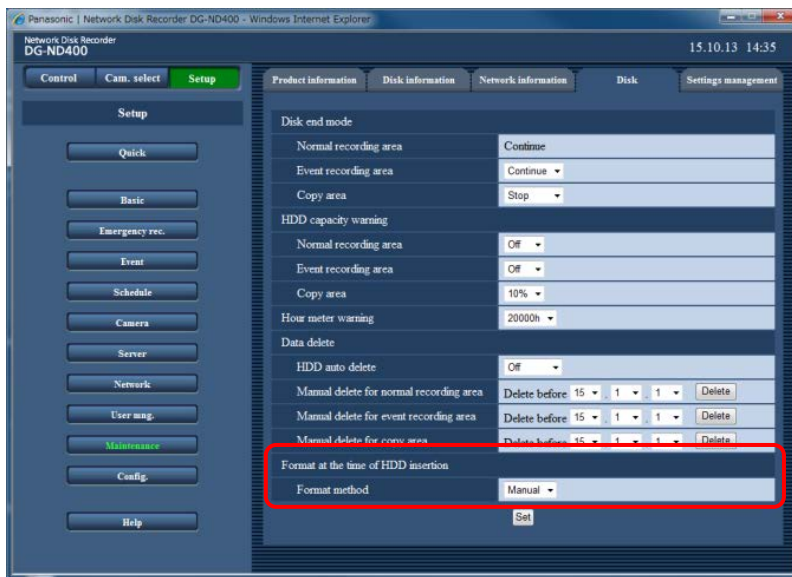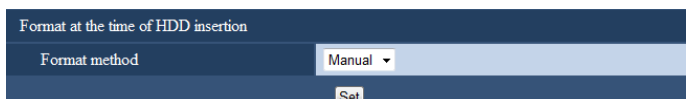| Details on the new functions	Reference pages
A function to select the HDD format mode from auto or manual is added. **How to switch the format mode** The format mode can be switched in the "Maintenance" page. 1. Display the [Disk] tab in the "Maintenance" page.	Installation Guide page 49, page 50

Maintenance page - Disk tab

Setting items of the format mode

2. Select the format mode.
    - Manual : Asks the necessity of format every time when HDD is replaced.
    - Auto : Formatting will be automatically executed when HDD is replaced.

3. Click the [Set] button.

Note:
- The default setting is "Manual".
- When the software is upgraded, the default setting is also "Manual".

Details on the new functions	Reference pages

How to check the format mode

The format mode can be checked in the [Disk] tab of the "Maintenance" page (previous page). Also it can be checked in the LCD of the recorder.

Follow the procedure below to check the format mode.

1. Press the [▲] or [▼] button on the front panel to display the system information window on the LCD.

```
System  Info
          [SET]
```

2. Press the [SET] button to display the version information of the system.

```
Soft  Version1
         Ver. *. **
```

3. Press the [▲] or [▼] button to display the format mode window.

```
FORMAT  MODE
        MANUAL
```
Manual mode

```
FORMAT MODE
          AUTO
```
Auto mode

Details on the new functions	Reference pages

How to replace HDD when manual mode is selected

In the single mode, when the manual mode is selected for formatting, a prompt message to ask whether to format the disk will be displayed every time the HDD is added or replaced.

Also, the prompt message to ask whether to format the HDD will be displayed when the RAID mode is selected with the recorder or with the extension unit, or when a HDD is added.

1. To format the disk, select "YES" and press the [SET] button.
    To cancel formatting , select "NO" and press the [SET] button.

```
FORMAT  Single?
          <NO/YES>
```

```
FORMAT  RAID5?
          <NO/YES>
```

```
FORMAT  RAID6?
          <NO/YES>
```

2. When "YES" is selected, the added HDD (in the RAID mode, the recorder or the extension unit) will be formatted.
    When "NO" is selected, the operation will be proceeded.
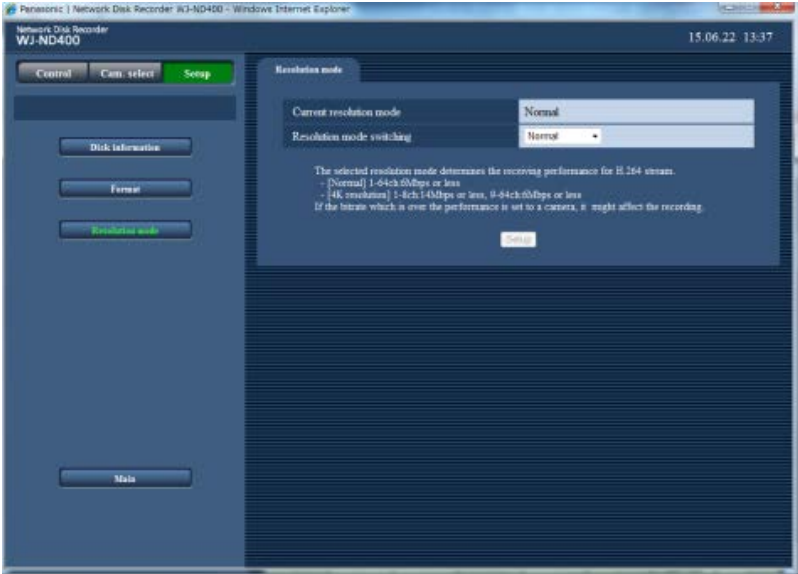
Important:
*   According to the recorder's operation mode, the type of message to be displayed (Single/RAID5/RAID6) will vary.
*   In the single mode, when "NO" is selected and the disk is not formatted, the prompt message to ask whether to format the disk will be displayed again when the power of the recorder is cycled.
*   In the RAID5 or RAID6 mode, when "NO" is selected and the disk is not formatted, a message "INITIAL ERR" may be displayed on the LCD when the power of the recorder is cycled.
    In this case, first perform the RAID initialization with the recorder or the extension unit that have not been formatted. Then, format the disk.
*   When "NO" is selected, the unformatted HDD (in the RAID mode, the recorder or the extension unit) can be removed at any time.
*   The remove error will occur when the HDD is removed while the format prompt message is displayed (before selecting "YES" or "NO").
    Once again the HDD is inserted, the format prompt message will be displayed.

Note:
*   When the format prompt message is displayed, a buzzer will sound per 1 second. The buzzer can be stopped by a button operation on the front panel.

New functions (Software V5.00)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages
Added a new mode, "4K resolution" mode, in which the bitrate that can display the live, record and playback is up to 14Mbps.	Setup Instructions page 86

Important:
- Only ch1 to ch8 in the "4K resolution" mode can support a bitrate up to 14Mbps.
- The number of users who can login at the same time is reduced to 8 in the "4K resolution" mode. (16 users can login in the "Normal" mode.)
- When playing images recorded over 6Mbps for the bitrate on a multi-screen with audio, interruption of audio might occur.

Change the resolution mode

It is possible to change the resolution mode on the disk configuration page.

3. Click the [Resolution mode] button on the disk configuration page.
   The "Resolution mode" page will be displayed.

4. Select the resolution mode.
   - Normal : 1ch～64ch 6Mbps or less
   - 4K resolution : 1ch～8ch 14Mbps or less, 9ch～64ch 6Mbps or less
5. Click the [set] button.
   The confirmation window will be displayed. Click the [OK] button, the recorder will automatically reboot to validate the mode.

Details on the new functions	Reference pages
Important: • The recorded image in the "4K resolution" mode cannot be played back properly in the "Normal" mode. Note: • A current resolution-mode setting will be displayed on the [Product information] tab page under "Maintenance". 15.06.22 18:10 Product information Disk information Network information Disk Settings management Current resolution mode Normal Version information	
During 1-screen display of live images of the camera on the web browser, the image will be displayed by dropping the frame temporarily, if drawing process is delayed depending on the load state or performance of the PC.	Operating Instructions page 29
During 1-screen playback on the web browser, the image will be played by slowing the playback speed temporarily, if drawing process is delayed depending on the load state or performance of the PC. At this time, audio will be muted.	Operating Instructions page 19

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New functions (Software V4.50)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages
Panasonic 9 megapixel network cameras can be used with the recorder. Note: • Refer to the "readme.txt" on the provided CD-ROM about the available cameras. **Important:** • When any of WQHD(2560x1440), 5M(2560x1920), 4M(2048x2048), 8M(2816x2816) and 9M(2992x2992) is selected for the image capture size of camera, display of live images on the monitor or the web browser may delay for approx.2 seconds. • When any of WQHD(2560x1440), 5M(2560x1920), 4M(2048x2048), 8M(2816x2816) and 9M(2992x2992) is to be selected for the image capture size of camera for your operation, it is recommended to use a PC with one of the following CPUs to obtain the operational comfort. CPU: Intel® Core™ i7 4770 or faster • Depending on the load state of the PC, live images from a camera may be displayed with some broken parts. However, this will not affect the recording. • When over FHD (1920x1080) is to be selected for the image capture size, the images on a 4-screen of the browser will be displayed with the selected refresh interval. • When displaying images with the aspect ratio of 1:1 on the main monitor or the browser, proportion of the displayed images will be kept regardless of the aspect ratio of the display screen. However, when sequence function is performed, the image will be displayed with the aspect ratio of the display screen. • The bitrate that can display the live, record and playback is up to 6 Mbps. When the bitrate is set to over 6Mbps, there is a possibility that the live image may not be displayed properly or the recording may fail. • The resolution should be below SXVGA(1280x960) or the bitrate should be less than 6Mbps to use SD memory backup. When over SXVGA(1280x960) or over 6Mbps are selected, SD memory backup may not be able to work properly. • An alarm mail and a FTP transmission might not work normally, when the jpeg file size which is sent from a camera is 1 MB or more. • It is possible to download up to 2 GB per download.	-

Details on the new functions	Reference pages

Added a function to perform the error action when recorder can communicate with a camera but cannot receive any video.
Notification by e-mail, Error log
   CAM xx COMMUNICATION ERROR(VIDEO)
LCD
   NW ERR
   CAMERA xx ERROR
Output from connector
   Camera error output
* xx : camera channel
	Operating Instructions
	page 56, page 59
	Setup Instructions
	page 93

New functions (Software V4.30)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages
Panasonic network microphone can now be used with Panasonic fisheye network camera. Read "To customers using the network microphone" for further information.	-

New functions (Software V4.10)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages
The authority of download can be set independently of the playback authority. Playback operation : Recorded images can be played. Download : Recorded images can be downloaded. 	Setup Instructions page 76
The event log relating to the i-VMD of the camera is added. CAM-OBJ : Object detection CAM-CLD : Cross line detection	Operating Instructions page 42

Details on the new functions	Reference pages

Added a function to perform the error action when recorder detects HDD slow response.
Notification by e-mail, Error log
   Recorder : MAIN-y SLOW RESPONSE
   Extension unit : EXTx-y SLOW RESPONSE
LCD
   Recorder : MAIN-y ERR
            SLOW RESPONSE
   Extension unit : EXTx-y ERR
             SLOW RESPONSE
Output from connector
   HDD error output
* x : Unit number, y : Disk number
	Operating Instructions
	page 56, page 59
	Setup Instructions
	page 93

Added a function to show the followings on the event log.
RAID recovery starting
   Recorder : STARTING RAIDt RECOVERY:MAIN
   Extension unit :STARTING RAIDt RECOVERY:EXTx
RAID recovery comptelted
   Recorder : COMPLETE RAIDt RECOVERY:MAIN
   Extension unit :COMPLETE RAIDt RECOVERY:EXTx
* t : 5/6, x : unit number
	Operating Instructions
	page 59

New functions (Software V3.40)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Reference pages
It is possible to start obtaining SD memory data (images recorded on the SD memory card on the camera) manually. When the SD memory backup is activated, the [Obtain SD memory data] button will be displayed under the [Stop recording] button. Obtaining SD memory data will start when the [Obtain SD memory data] button is clicked. 	Operating Instructions page 16
The event log relating to the i-VMD of the camera is added. 　CAM-INT: Intruder detection 　CAM-LOI: Loitering detection 　CAM-DIR: Direction detection 　CAM-SCD: Scene change detection Note: • This function is available when "On" is selected for "Additional alarm area data" on the camera. For further information about this setting, refer to the operating instructions of the camera in use.	Operating Instructions page 42

Details on the new functions	Reference pages
By using the viewer software, the function that compensates and converts fish-eye images captured by Panasonic's 360-degree network camera (hereinafter referred to as 360-degree camera) to "1-screen PTZ" or "4-screen PTZ" is now available.(Compensation function) **Important:** The compensation function is available only when the library file for compensation is downloaded from the URL below and installed on the PC in which the viewer software is installed. http://security.panasonic.com/pss/security/support/info.html • When images that can be compensated are detected, the / / buttons will be displayed. Click one of them to change the compensation method. : Get back to fish-eye image. : Compensate and convert to "1-screen PTZ". : Compensate and convert to "4-screen PTZ". • When displaying images that are compensated and converted to "1-screen PTZ" or "4-screen PTZ", it is possible to make a desired point to position as the center point of the image by clicking on the image.	Notes for Installation.pdf

New functions (Software V3.30)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Menu to configure the settings

The setting of SD memory recording has become available even when the compression method is "H.264".
 	
SD memory recording
  Off*/On
  * Default when cameras have been registered (Compression: H.264)
 	
⌐ Note: ─────
• When setting the SD memory recording in H.264, make sure that "H.264(1)" or "H.264(2)" is selected for the "Recording format" setting of the camera.
• If the load is high on the recorder or the network, the SD memory recording may sometimes be performed even when the connection with the camera is not interrupted.
	[Emergency rec.]
	[Schedule] > [Program]
	
	→ Setup Instructions, page 36:
	  "SD memory rec."

The information on SD memory card loaded on the camera which is set SD memory recording and the progress on SD memory recording can be checked on the setup menu.
• Camera software
  Displays the software version of camera.
• Model no.
  Displays the model number of SD memory card loaded on the camera.
• Hour meter
  Displays the operating time of SD memory card loaded on the camera.
• Overwrite
  Displays how many times the data has been overwritten on the SD memory card loaded on the camera.
• Progress information
  Displays the progress on SD memory recording.
  Date & time display: The time and date of images being obtained from the SD memory card loaded on the camera
  −: The SD memory card loaded on the camera contains no image data to be obtained.
 	
⌐ Note: ─────
• Refer to the "readme.txt" on the provided CD-ROM about the available cameras.
	[Maintenance] > [Product information]
	
	→ Setup Instructions, page 78:
	  [Product information].

Details on the new functions	Menu to configure the settings
The following two NTP server addresses can be registered. • Primary server address (The former name: NTP server address) • Secondary server address	[Server] > [NTP] → Setup Instructions, page 57: [NTP]

New functions (Software V3.20)

Due to software upgrade, the following new functions have become available.

Details on the new functions	Menu to configure the settings
ONVIF compliant cameras can be used with the recorder. Note: • For further information, refer to the "readme.txt" on the provided CD-ROM.	[Camera] > [NW camera] → Setup Instructions, page 49: Automatic camera detection and registration
The underlined setting values are added to "Hour meter warning". Off/10000h/20000h (default)/30000h/40000h/50000h	[Maintenance] > [Disk] → Operating Instructions, page 83: "Disk"

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