

SNC-CH135/CH140/CH180/CH240/CH280

SNC-DH140/DH140T/DH180

SNC-DH240/DH240T/DH280

Release Note

Ver. 1.88

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Sony Corporation

Release Note

Modification history

#	Release date	Version	Content of major change and comment
1	2009/12/16	1.05	First release for SNC-CH140/DH140
2	2010/01/08	1.05.05	Bug Fix Add: Major Improvements at Ver. 1.05.05
3	2010/01/25	1.07.00	First release for SNC-DH180 Bug fix in Ver. 1.07.00
4	2010/4/26	1.10.01 / 1.10.02	Ver. 1.10.01 : First release for SNC-CH240/DH240 Ver. 1.10.02 : First release for SNC-CH180 and update for SNC-CH140/DH140/DH180 Add: Newly Function, Improved Function Update: Major Improvements, Known Issues
5	2010/5/19	1.10.03	First release for SNC-DH140T/DH240T Bug fix in Ver. 1.10.03
6	2010/6/24	1.11	Bug fix in version 1.11
7	2010/09/22	1.26	<ul style="list-style-type: none"> • Add: Newly Function, Improved Function • Update: Major Improvements, Known Issues • First release for SNC-CH280/DH280
8	2011/03/04	1.31	<ul style="list-style-type: none"> • Add: New Function, Improved Function • Update: Known Issues
9	2011/04/01	1.32.01	• First release for SNC-CH135
10	2011/04/28	1.34	Bug Fix
11	2011/08/22	1.50	<ul style="list-style-type: none"> • Add new Function, Improved Function • Update: Major Improvements, Known Issues
12	2012/01/20	1.61	Improved Function
13	2012/07/11	1.73.01	<ul style="list-style-type: none"> • Add: New Function and Corrected Problem for Ver.1.73.01 • Update: 6.1. (General information on NTCIP will not be provided) • Add: 14.8, 14.9, and 18.11.
14	2012/10/5	1.75	<ul style="list-style-type: none"> • Add: New Function and Corrected Problem for Ver. 1.75 • Update: Known issues (20.11, 20.12)
15	2012/11/22	1.77	• Add: New Function and Corrected Problem for Ver. 1.77
16	2013/08/01	1.79	• Add: New Function and Corrected Problem for Ver. 1.79
17	2013/09/27	1.80	• Corrected Problem for Ver. 1.80
18	2014/02/27	1.82.01	• Add: New Function and Corrected Problem for Ver. 1.82.01
19	2014/06/30	1.84	• Add: Corrected Problem for Ver. 1.84

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20	2014/11/10	1.85	<ul style="list-style-type: none">• Add New function for Ver. 1.85
21	2016/12/22	1.86	<ul style="list-style-type: none">• Add Improved Function• Add New function for Ver. 1.86
22	2017/04/25	1.87	<ul style="list-style-type: none">• Add New function for Ver. 1.87
23	2018/06/29	1.88	<ul style="list-style-type: none">• Add: New Function and Corrected Problem• Update: Known issues (37.12)

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1. About this release version

1.1. General Information

This version is Ver. 1.88. This firmware can be applied to the following models.

- SNC-CH135 (CN)
- SNC-CH140 (SYM, CN)
- SNC-CH140C (AR)
- SNC-CH180 (SYM, CN)
- SNC-CH240 (SYM, CN)
- SNC-CH280 (SYM, CN)
- SNC-DH140 (SYM, CN)
- SNC-DH140T (SYM, CN)
- SNC-DH180 (SYM, CN)
- SNC-DH240 (SYM, CN)
- SNC-DH240T (SYM, CN)
- SNC-DH280 (SYM, CN)

This release note describes the detailed information about this version.

1.2. System Requirements

The following computer environment is necessary for the computer to display images and the controls of the camera.

- OS

Windows 7 (32-bit version, 64-bit version)

Windows 8.1 (32-bit version, 64-bit version)

Authorized editions:

Windows 7 : Ultimate, Professional

Windows 8.1 : Pro

Microsoft DirectX 9.0c or higher

- Web Browser

Microsoft Internet Explorer Ver. 11.0 (Windows 8.1 Desktop Mode only)

Firefox Ver. 50.1 (Plug-in free viewer only)

Google Chrome Ver. 55.0 (Plug-in free viewer only)

- CPU

Intel Core 2 Duo、2 GHz or higher (SNC-CH135/CH140/CH180/DH140/DH140T/DH180)

Intel Core 2 Duo、2.33 GHz or higher (SNC-CH240/CH280/DH240/DH240T/DH280)

- Memory

1 GB or more (SNC-CH135/CH140/CH180/DH140/DH140T/DH180)

2 GB or more (SNC-CH240/CH280/DH240/DH240T/DH280)

- Display

1600 × 1200 pixels or higher (SNC-CH135/CH140/CH180/DH140/DH140T/DH180)

1600 × 1200 pixels or higher (2560 × 1600 pixels or higher is recommended.)

(SNC-CH240/CH280/DH240/DH240T/DH280)

1.3. Compatibility

There is no change on CGI command, RTSP, other network protocols and the streaming format. It is compatible with Ver. 1.87 about connectivity between the external network devices and the camera.

2. Note on Upgrading Firmware

When upgrading the firmware, you should use the SNC toolbox of Ver. 1.3.8.0 or later. Refer to the release note of the SNC toolbox for the details of cameras supported by the SNC toolbox.

See "Using the SNC toolbox" section in the User's Guide for the usage.

3. Newly Added Function in Ver. 1.88

3.1. The security has been enhanced.

4. Problems corrected in Ver.1.88

4.1. Fixed a problem that camera image might not be displayed in ActiveX viewer.

There is a problem that the camera image may not be displayed when connecting to the camera with Internet Explorer (IE). When the problem occurs, a × mark is displayed at the upper left of the ActiveX viewer (And motion detection setting monitor screen). This problem was corrected.

(Problem from Ver.1.87)

5. Newly Added Functions in Ver. 1.87

5.1. The security has been enhanced.

[Note] When you fail in installation of ActiveX, apply the latest Windows security patches.

6. Function changed and Problems corrected in Ver.1.87

There is no function which is changed and there is no problem which is fixed in this version.

7. Newly Added Functions in Ver. 1.86

7.1. The security has been enhanced.

7.2. ONVIF Ver. 16.07 support

Conformance testing has been passed with ONVIF Device Test Tool Version 16.07.

8. Function changed and Problems corrected in Ver.1.86

There was a problem that the camera rarely fails to start up correctly. This problem has been corrected.

(Problem from Ver. 1.05)

9. Newly Added Functions in Ver. 1.85

9.1. Windows 8.1 IE11 support

This version supports Internet Explorer 11 (IE11) in Desktop User Interface Mode on Windows 8.1. But it does not support IE11 launching from Start Screen in Windows 8.1 and it has no evaluations of IE11 for Windows 7.

9.2. ONVIF Ver. 14.06 support

Conformance testing has been passed with ONVIF Device Test Tool Version 14.06.

10. Newly Added Functions in Ver. 1.84

Nothing.

11. Function changed and Problems corrected in Ver. 1.84

11.1. Improved a failure in superimposed date indication

The failure in superimposed date indication occurs in leap year adjustment function which will detect all years involved the last 1 digit is 4 or 8 as leap-year. This version improved this problem. For example of this failure, the date of Feb. 29 will be superimposed on the indication after Feb. 28 instead of Mar.1 in 2014, 2018, 2034, 2038 and later wrong years and superimposed date indication will make delay of one day from system setting.

But "Date and time" Tab of GUI will correctly update to Mar.1 and it is possible to correct the wrong date indication by re-setting from this Tab.

(Problem from Ver. 1.05)

12. Newly Added Functions in Ver. 1.82.01

12.1. ONVIF Ver. 13.06 support

Conformance testing has been passed with ONVIF Device Test Tool Version 13.06.

13. Function changed and Problems corrected in Ver. 1.82.01

13.1. Clock information's problem gained incorrectly in daylight saving time (DST)

When the setting of 'automatically adjust clock for DST changes' had been activated, this problem would occur in Camera's clock information which gained an hour at every 3 or 4 days in DST. This version improved this problem.

(Problem from Ver. 1.05)

13.2. Enhanced error correction capability for the firmware data stored in the memory

Some defect data in a part of the memory's area may cause the problem which is camera may not launch or some particular function may not work correctly after power-on or after rebooting. Therefore error correction capability was enhanced for the improvement to them.

(Problem from Ver. 1.05)

14. Newly Added Functions in Ver. 1.80

Nothing.

15. Function changed and Problems corrected in Ver. 1.80

15.1. Frame rate settings failure from '1280x720' up to '1920x1080' by using ONVIF command (SNC-CH240/DH240/DH240T/CH280/DH280)

Frame rate settings of Image size from '1280x720' up to '1920x1080' had been limited incorrect values in H.264 codec by using ONVIF command. (There has been no concern with CGI command.) This version improved this problem.

(Problem from Ver. 1.05)

15.2. 802.1x authentication failure after reboot

The problem of 802.1x authentication failure had been found in connection with 802.1x authentication PoE Hub. This version improved this problem.

(Problem from Ver. 1.01)

16. Newly Added Functions in Ver. 1.79

16.1. Windows 8 IE10 support

This version supports Internet Explorer 10 (IE10) in Desktop User Interface Mode on Windows 8. But it does not support IE10 launching from Start Screen in Windows 8 and it has no evaluations of IE10 for Windows 7.

16.2. ONVIF Ver. 12.12 support

Conformance testing has been passed with ONVIF Device Test Tool Version 12.12.

16.3. Additional function of RTP stream with user data

Additional function of RTP stream with user data is installed in this version. New CGI category is added as 'userdata.cgi', and this function is available to change its parameter 'RTPUserData' value from default setting 'off' to 'on' as shown below.

http://ip_adr/command/userdata.cgi?RTPUserData=on

For details regarding this function, refer to the instructions for the CGI Command Manual.

16.4. RFC3551 format support for G.726

RFC3551 besides ITU-T formats are supported for G.726 audio codec. Generally RFC3551 format is selected on ONVIF connection.

These two formats are specified by streaming request URI as below.

- ITU-T format
rtsp://ip_adr/media/video1
or
rtsp://ip_adr/media/video1?g726=itu-t
- RFC3551 format
rtsp://ip_adr/media/video1?g726=rfc3551

The following CGI parameter specifies audio streaming port number for RFC3551.

- Unicast: RTSPUcAudioG726RfcPort (default 51004)
- Multicast: RTSPMcAudioG726RfcPort (default 61004)

17. Function changed and Problems corrected in Ver. 1.79

17.1. Erase unnecessary data in OSD with Focus indicator and so on

Some parts of previous indications data had remained in OSD with Focus or Zoom indicator. This version improved this problem.

(Problem from Ver. 1.77)

17.2. Support ONVIF Profile which includes Audio only

When ONVIF profile which includes Audio only is created, previous version returns BadRequest to GetStreamUri command. This version fixed the problem by returning URI.
(Problem from Ver. 1.77)

17.3. Several Time Zone settings will be available by using ONVIF command

CET-1, IDLW time zone settings had been unavailable by using ONVIF command. This version improved this problem and supported a setting of offset hours from GMT (e.g. 'GMT-5' is meaning to Eastern Time of USA and Canada, but it does not support offsets of minutes and seconds).
(Problem from Ver. 1.05)

17.4. No update of Port number after changing HTTP's port setting by using ONVIF command

Even though HTTP's port number was changed from default value, there would be no update of new port number in Device Service Address of ONVIF command. This version improved this problem.
(Problem from Ver. 1.05)

17.5. Improved some Video Encoder Configuration's problems of ONVIF

Some problems have been found on getting and setting Image2's parameter in Video Encoder Configuration of ONVIF. These problems occur under the restriction of camera performance because image2's parameter depends on Image1's setting. And so this version improved them in accordance with the condition.

And some format (e.g. PTxxHxxMxxS) of RTSP session time out setting is available from this version. (Maximum period of time out is 600 seconds, and the value more than it will be limited to 600 seconds.)

(Problem from Ver. 1.05)

17.6. Improved Privacy Mask Setting problem in Image Cropping mode

Privacy Mask position has been misaligned in Image Cropping mode. This version improved this problem.
(Problem from Ver. 1.01)

17.7. Improvement of Edge Storage's recording performance

It has been found some defaults in the recording to memory media of Edge Storage, and it would cause media error and make irregular stop. This version improved the cause of defaults by changing data format and structure in the media.
(Problem from Ver. 1.31)

Caution

- The old data recorded in the media cannot be transformed into new format.
- Depending on media, it has possibilities to produce a condition unrecordable for about 1 second infrequently under using this version.

Edge storage function needs updating Ver. 1.79 to avoid media error.
Please follow the procedure to update firmware as below.

- 1) Stop Edge Storage or Image memory function.
- 2) Back up the data in memory media. (Refer to the explanation below.)
- 3) Update camera firmware.
- 4) Format the memory media by camera. (All of data recorded in the media will be deleted.)
- 5) Restart Edge Storage or Image memory.

Please back up the data in memory media by one of following procedures.

- a) By using Recorder which can receive RTSP streaming, play back the data in the media and record it.
- b) Validate camera's FTP server, and get the data recorded in the media to FTP clients.
[Note]
- c) After power-off, remove the media from the camera, and copy the data recorded in the media to computer. [Note]

[Note]

SNC video player is available to play back the image data (*.maf files) which are backed up by the procedure b) or c).

When firmware is updated before backup of the old data in the media, please return to a previous version and back up according to the above-mentioned procedure. Updated firmware will detect old data format, will show the message "FORMAT MEDIA PLEASE" on display and will record a message which requests to format the media to system log. In this condition, camera cannot restart Edge Storage function.

17.8. Add RTP-Info Header in the Information of response to PLAY over RTSP
Over RTSP, RTP-Info Header has not included in the information of response to PLAY command. This version is able to add the information by using CGI command as shown below.

http://ip_adr/command/camera.cgi?RTPInfo=on (default setting is 'off')

For details regarding this function, refer to the instructions for the CGI Command Manual.
(Problem from Ver. 1.05)

18. Newly Added Functions in Ver. 1.77

18.1. ONVIF Profile S support

ONVIF Profile S is supported. Conformance to Profile S is validated with ONVIF Device Test Tool Version 12.06.

19. Function changed and Problems corrected in Ver. 1.77

19.1. Improvement of streaming video performance over SSL

The frame rate of SSL streaming video is improved.

(Problem from Ver.1.05)

19.2. Correction of MPEG-4 SDP data

The extraneous last four bytes of SDP (Session Description Protocol) data for MPEG-4 in RTSP streaming are removed.

(Problem from Ver.1.05)

19.3. Connectivity with other vendors' client software

There was a problem that connections with Omnicast client software provided by Genetec may be lost. This problem has been fixed.

(Problem from Ver.1.31)

19.4. Solid PTZ on ONVIF connection

Absolute Pan/Tilt/Zoom and Relative Pan/Tilt/Zoom functions on ONVIF connection are supported.

(Problem from Ver. 1.05)

[Note]

- Relative Pan/Tilt and Relative Zoom do not work concurrently.
- Continuous Pan/Tilt/Zoom functions are not supported.

19.5. Video output signal format problem (SNC-CH180/CH280)

There was the problem that the video output signal format turned out to be NTSC when it was set to PAL according to the setting of the camera's NTSC/PAL switch and the setting data of the camera were saved and restored. This problem has been fixed.

(Problem from Ver. 1.05)

19.6. Image 2 setting data restoration problem

There was the problem that the Image 2 setting data may not be restored properly. This problem has been fixed.

(Problem from Ver. 1.05)

20. Newly Added Functions in Ver. 1.75

20.1. Motion detection / Camera tampering detection / Audio detection support (SNC-CH135)

SNC-CH135 has not ever supported Motion detection, Camera tampering detection, and audio detection. From this version these functions are available.

20.2. CGI command setting for WS-Discovery

The following CGI command disables WS-Discovery protocol for ONVIF connection. At this time the multicast join message packet to 239.255.255.250 is not sent at startup.

http://ip_adr/command/system.cgi?WsDiscovery=off

For details, refer to the CGI Command Manual.

21. Function changed and Problems corrected in Ver. 1.75

21.1. alarmdata.cgi sending problem when SSL is on

There was the problem that alarmdata.cgi could not be sent when SSL is enabled. This problem has been solved.

(Problem from Ver. 1.31)

21.2. Incorrect return value by alarmdata.cgi during continuous motion detection

There was the problem that alarmdata.cgi has possibilities to return 0 (which indicates no motion is detected) even though motion was detected continuously. The actual occurrence frequency is rare. This problem has been solved.

(Problem from Ver. 1.50)

21.3. Throughput degradation in full-duplex transmission

When 10Mbps or 100Mbps full-duplex mode is specified by CGI command, Ethernet throughput may be degraded. This problem has been solved.

(Problem from Ver. 1.05)

21.4. Improvement of responsiveness in multicast streaming

The CGI command responsiveness has been improved in multicast streaming.

(Problem from Ver. 1.05)

21.5. Error response to ONVIF command SetVideoEncoderConfiguration

There was the problem that the camera may return the "HTTP/1.1 500 Internal Server Error" to ONVIF SetVideoEncoderConfiguration request.

This problem has been fixed.

(Problem from Ver. 1.05)

22. Newly Added Functions in Ver. 1.73.01

22.1. Supported Web Browser

Microsoft Internet Explorer Ver.9.0 is newly supported.

The verification test is executed for Windows 7.

22.2. Multicast address setting per video or audio instance

It is possible to set and request different multicast address respectively for image1, image2, and audio.

For details, refer to the CGI Command Manual.

[Note]

This function cannot be used by ActiveX viewer, setting menu and the SNC toolbox.

22.3. Camera operating mode (SNC-CH240/CH280/DH240/DH240T/DH280)

Video capture used to always be done in 30fps. From this version it is possible to capture video in 25fps besides 30fps by setting menu and CGI command.

For details on CGI command, refer to the CGI Command Manual.

[Note]

- 25fps cannot be selected when “Maximum image size” is set to 1920 x 1440.
- This function cannot be used by the SNC toolbox.

23. Function changed and Problems corrected in Ver. 1.73.01

23.1. Video codec bit rate of the factory settings changed

(SNC-CH240/CH280/DH240/DH240T/DH280)

The video codec bit rate is changed from 2Mbps to 4Mbps in the factory settings.

(Specification from Ver. 1.05)

23.2. Effectiveness of RtpExpire value

There was the problem that the changed value of CGI parameter RtpExpire had not been effective without reboot. It is no more required to reboot for changing this value from this version.

(Problem from Ver. 1.05)

23.3. Incorrect response to GetVideoSourceConfigurationOptionsRequest ONVIF command

When both Configuration and Profile are not specified on

GetVideoSourceConfigurationOptionsRequest, VideoSourceTokenAvailable field is missing on GetVideoSourceConfigurationOptionsResponse. This problem has been solved.

(Problem from Ver. 1.05)

24. Problems corrected in Ver. 1.61

24.1. Improvement of video codec mode update

It used to take about 3 seconds to update a frame rate or a bit rate of the video codec. By improvement of this version the duration is reduced by approximately 90 percent.

(From Ver. 1.05)

24.2. Antenna settings for the outdoor models

Even though the SNCA-AN1 wireless LAN antenna should not be attached to SNC-CH180 and CH280 outdoor models, the antenna setting items Internal/External/Diversity are displayed. This problem has been solved and the Internal menu item is always displayed.

(Problem from Ver. 1.10.02)

24.3. Landscape mode display of Smartphone viewer

The lower part of the video may not be displayed in landscape mode of Smartphone viewer. This problem has been solved. The blank image on the both horizontal side of the video may be displayed so that the whole video is displayed on the display area keeping the image aspect ratio.

(Problem from Ver. 1.50)

24.4. Streaming problem in Smartphone viewer

When HTTP port number is set to a number other than 80(default) in the Network menu, the streaming data could not be received in the Smartphone viewer. This problem has been

solved.

(Problem from Ver. 1.50)

24.5. Incorrect value in Fragment Offset of JPEG RTP packet header

The value of Fragment Offset in JPEG RTP packet header differs from the correct one defined by RFC 2435. This problem has been solved. For the client software which wants to use the former incorrect value to keep compatibility, the following CGI command is provided.

http://ip_adr/command/camera.cgi?RTPMJPEGOffset=off

For details regarding this function, refer to the instructions for the CGI Command Manual.

(Problem from Ver. 1.05)

24.6. Reconnection problem on audio upload authentication error

When a network connection for audio upload from a client software causes authentication error, the camera does not close its connection. If the client tries to reconnect by using the same connection, it fails to reconnect. This problem has been solved by closing the failure connection from the camera. SNC audio upload tool close the failure connection from the client and has no problem.

(Problem from Ver.1.05)

24.7. Play operation problem of Edge Storage

Play operation of Edge Storage may not start depending on the specified start time and end time. This problem has been solved.

(Problem from Ver. 1.31)

25. Newly Added Functions in Ver. 1.50

25.1. NTCIP support

NTCIP (National Transportation Communications for ITS protocol) is the protocol for the transportation monitoring standardized in the U.S.A. The registration and calling of the preset and PTZ control are working with the VidShield software by VidSys in the U.S.A.

There is no setting item regarding this function in the Administrator menu.

25.2. Connection List

This is a function to acquire information regarding the delivery destination of the streaming. This is used to recognize which client is receiving the streaming.

It is possible to acquire the IP address, port number, protocol using HTTP or UDP, and detailed information, such as media type for H.264, etc., for every session.

This is supported by the CGI command. There is no setting item regarding this function in the Administrator menu.

For details regarding this function, refer to the instructions for the CGI Command Manual.

25.3. Smartphone viewer

This is a viewer for smart phones to display an image or perform the PTZ operation by accessing from a smart phone.

The user manual and support information for this function are at the following site.

<http://www.sony.net/ipela/snc>

26. Problems corrected in Ver. 1.50

26.1. Saving setting for SNMP

SNMP related settings may not be saved when the version was updated or a setting was called. This problem has been solved. When a version is to be updated from the version prior to Ver.1.50 or the setting is to be called from the file saved in the version prior to Ver. 1.50, note down the required SNMP related setting values and reset them after the version is updated or the setting is called.

(Problem from Ver. 1.05)

27. Problems corrected in Ver.1.34

27.1. Edge Storage

When the overwrite setting was set to ON and there were 500 entries, there was the problem that the entry was not overwritten from the oldest one.

(Problem since Ver. 1.31)

The problem that playback was not possible with RTP/RTSP/HTTP has been corrected.

(Problem since Ver. 1.31)

There was an error in timestamp of streaming. This problem has been fixed.

(Problem since Ver. 1.10)

The Range parameter was rounded down to the whole number. This problem has been fixed.

(Problem since Ver. 1.31)

27.2. Alarm buffer

When using the alarm buffer, the data was discarded if the post time and event occurrence overlapped. This problem has been fixed.

(Problem since Ver. 1.05)

27.3. Streaming

Multicast's stream acquisition request failed if it was performed consecutively. This problem has been fixed.

(Problem since Ver. 1.05)

27.4. IR illuminator (SNC-CH180/DH180/CH280/DH280)

When the IR illuminator was set to "Sync with Day/Night" and the Day/Night mode to a setting other than "Auto", there was a case where the infrared illuminator did not work in the Night mode. This problem has been fixed.

(Problem since Ver. 1.31)

28. Newly Added Functions in Ver. 1.32.01

28.1. Supported models

In this version, SNC-CH135 is supported.

29. Newly Added Functions in Ver. 1.31

29.1. Language

Use of Portuguese is newly supported.

29.2. Supported OS and browsers

64 bit Windows 7 is newly supported.

Operation certified edition

- Windows 7 Professional

29.3. ONVIF

ONVIF Core Spec Version 1.02 is newly supported.

29.4. Image size

800 x 600 is newly added to the image size.

29.5. Letter box

Letter box function is newly added.

Letter box function is a function to resize maintaining the aspect ratio when the aspect ratio of the input video is different from the aspect ratio of the image to be streamed.

29.6. Edge Storage

Following functions are added to the Edge Storage function

- Millisecond is now supported for the time
Start and stop time of the recording is represented in millisecond unit.
- Volume display of recording data (1 Stream) with Search cgi
Size of the recording data is represented in kbyte unit.
- On-Recording display of recording data with Search cgi
Currently recording data and recorded data are distinguished as Recording and Recorded respectively.

30. Changed or improved Functions in Ver. 1.31

30.1. Preset name

Double-byte characters are allowed to be used with the preset name.

However, double-byte characters are not displayed in the superimposed.

30.2. Exposure

- Setup UI/CGI for the iris and shutter speed control is changed.
- Setting for the auto iris is eliminated, and it is made so the iris is closed only when it is too bright even with the fastest shutter speed.
- Notes
 - ✧ When the version is upgraded from the one before Ver.1.31 to Ver.1.31 or later, the value displayed on the UI and the actual operation may differ. In such a case, configure the setup again with the UI.
 - ✧ When using the newly added CGI (AutoShutterMaxSpeed, AutoShutterMinSpeed), turn on AutoShutter and AutoSlowShutter.

31. Newly Added Functions in Ver. 1.26

31.1. Supported models

In the Ver.1.26 SNC-CH280 DH280 have been newly supported. The IR illuminator function of these models is also supported by this version.

In Active X Viewer, SNC-CH280 and DH280 are added as a displayed model name.

31.2. Language

The following languages are newly supported.

- Chinese (Traditional Chinese character)
- Korean

31.3. Frame rate setting

The following values are newly supported for frame rate setting.

- 12 fps
- 16 fps

31.4. Auto slow shutter setting

The "1/30" option is newly supported for auto slow shutter setting.

31.5. RTSP Multicast streaming

The request of multicast streaming by RTSP is newly supported.

32. Changed or improved Functions in Ver. 1.26

32.1. Assigning the IP address to the camera by ARP commands

The function that ARP commands assign an IP address to the camera is now selectable either ON or OFF.

Please refer to CGI manual for details.

33. Functional Restrictions

33.1. Audio Upload Tool

When Proxy Server is set, Audio Upload Tool may be unable to connect to the target camera. Please disable the Proxy Server if this problem occurs.

33.2. Camera tampering detection alarm (SNC-CH135 does not support)

When no motion detection setting is configured, please configure the motion detection area to the whole screen, or the performance of camera tampering detection will drop in some cases.

33.3. VMF function (SNC-CH135 does not support)

The object might be unable to be detected correctly according to configuration.

Please use this function after confirming the object is correctly detected in actual environment.

33.4. SSL

When the SSL communication is established under the Windows Vista or 7, you may be not able to open the Active X Viewer or motion detection menu in some cases. Please carry out the following operations:

1. Select [(T)ools] and then click [Internet (O)ptions]
2. Go to [Security] tab
3. Click [Trusted sites] and then press [Sites] button
4. In [Add this website to the zone], enter the camera's address as follows:
https://<camera's address>
5. Press [OK];

33.5. Image cropping

The maximum size of image cropping for SNC-CH240, DH240, DH240T, CH280 and DH280 is 1280 x 1024.

33.6. RTSP Streaming

Because the RTSP has restriction on the performance, the following settings are recommended on the RTSP Streaming,

Case I: when H.264 or MPEG4 is selected in codec tab.

- Video output is OFF.
- The number of simultaneous communication sessions (HTTP or RTP): 2.
- Total connected bit rate is 4Mbps or below.

Case II: when JPEG is selected in codec tab.

- The number of simultaneous communication sessions (HTTP or RTP) : 1;
- Frame rate: 10fps or less
- Image quality: Level 4 or below

- Image size is VGA or below.

33.7. Edge Storage

While the "always recording" function is set, the Edge Storage recording will also be stopped when video codec is changed.

Please don't use Image Memory and FTP client when the Edge Storage function is being used.

- Image Memory: Please turn off the Image memory of the Common Tab, turn off the Alarm recording of the Alarm recording Tab, and turn off the Periodical recording of the Periodical recording Tab.
- FTP client: Please turn off the FTP client function of the Common Tab, turn off the Alarm sending of the Alarm sending Tab, and turn off the Periodical sending of the Periodical sending Tab.

Please don't use File attachment of e-Mail function when the Edge Storage function is being used.

- Please turn off the File attachment of the Alarm sending tab, and turn off the Periodical sending of the Periodical sending tab.

The following settings are recommended on the Edge Storage, because the Edge Storage has restriction on the performance.

- Video output: OFF
- Image 2 (in video codec tab): OFF.
- Image size: VGA or below.
- As follows when H.264 or MPEG4 is used
 - Bit rate: 2Mbps or below
 - Frame rate: 15fps or below
- As follows when JPEG is used
 - Frame rate: 10fps or below
 - Image quality: Level 4 or below

Up to 500 video clips can be stored in a CF memory card. When the overwrite setting is set to OFF, no recording can be performed once the number of entries reaches 500. When the overwrite setting is set to ON, the oldest entry is overwritten after the number of entries reaches 500.

33.8. Bandwidth control for JPEG streaming

Bandwidth control function for JPEG streaming is effective for TCP connection only.

33.9. Motion detection area setting

When a detection area has 180 degrees or more interior angles by CGI command setting, motion detection function may not work correctly. Please set every interior angle under 180

degrees as in the case of setting menu.

34. Major improvements at Ver. 1.32.01

There is no major improvement in Ver. 1.32.01.

35. Major improvements at Ver. 1.31

35.1. Absolute PTZF

The bottom right of the screen was the positive direction for the models only with a solid PTZ function before Ver. 1.31.

In order to match to other models, this positive direction has been changed to the top right. (Problem from Ver. 1.10)

To set the bottom right of the screen as the positive direction with firmware Ver. 1.31 and later, set camera.cgi SolidPTZTiltDirection to "down".

Please refer to CGI manual for details.

Caution

- It will operate upside down when connected to the camera with firmware prior to Ver. 1.31.

35.2. Image quality of SNC-CH240/DH240/DH240T/CH280/DH280

There was a problem that appropriate resolution was not achieved depending on the environment. It has been corrected. (Problem from Ver. 1.10)

35.3. Image disturbance in H.264

There was a problem that image with movement was disturbed when image is displayed on the ActiveX Viewer with the video codec set to H.264. It has been corrected.

(Problem from Ver. 1.10)

35.4. Motion detection

If pan/tilt operation was repeated during motion detection, there was a case where motion detection did not operate. This problem has been fixed.

(Problem since Ver. 1.00)

35.5. Event file

An abnormal frame existed in the event file. This problem has been fixed.

(Problem since Ver. 1.22)

36. Major Improvements in Ver. 1.26

36.1. About Time Setting

There was the problem that when the time setting is changed into the range within 50 minutes of current time, the setting will be returned to old setting within couple of seconds. This problem has been corrected.

(Problem from Ver. 1.10.01)

36.2. Edge Storage

There was the problem that the stream of video and audio might be unable to be played when the audio recording setting was turned ON and the other settings were different from recommended setting. This problem has been corrected.

(Problem from Ver. 1.10.01)

There was the problem that audio and video recording might fail when the image codec "JPEG" was selected and the audio recording was turned ON. This problem has been corrected.

(Problem from Ver. 1.10.01)

There was the problem that while recorded audio file is being played by RTP/RTSP or RTP/RTSP/HTTP connection, if the first connection is cut without playing, the target camera will be unable to be connected any more. This problem has been corrected.

(Problem from Ver. 1.10.01)

36.3. Image quality of JPEG (except streaming)

There was the problem that the image quality of JPEG was constant when e-Mail function, FTP client function or image memory function were used. This problem has been corrected.

(Problem from Ver. 1.10.01)

36.4. Bit-rate of MPEG-4

There was the problem that actual bit rate might become higher than selected bit-rate when the image codec was set to "MPEG-4". This problem has been corrected.

(Problem from Ver. 1.10.01)

36.5. RTSP

There was the problem that the stream of RTSP/RTP/UDP might fail to be got when the setting of CODEC was changed. This problem has been corrected.

(Problem from Ver. 1.10.01)

There was the problem that the image might not be displayed when repeating connection and disconnection of RTSP streaming. This problem has been corrected.

(Problem from Ver. 1.10.01)

There was the problem that the image failed to be got when the image size of JPEG exceeded 280Kbyte. This problem has been corrected.

(Problem from Ver. 1.10.01)

There was the problem that the image might unable to be displayed when connection of RTSP was cut during switching the codec. This problem has been corrected.

(Problem from Ver. 1.10.01)

36.6. Day/Night mode setting change in EasyFocus

There was problem that when Day/Night mode setting is changed during EasyFocus function running, Day/Night setting might fail to be set correctly. This problem has been corrected.

(Problem from Ver. 1.05.03)

36.7. Image size settings over limitation (SNC-CH240/DH240/DH240T)

There was the problem that the video streaming might stop when irregular combination of resolutions on image 1 and image2 was selected. This problem has been corrected.

(Problem from Ver. 1.10.01)

37. Known issues

37.1. About IPv6 DHCPv6

When using Windows Server 2008 as a DHCPv6 server under the IPv6 environment, an IP address may not be assigned correctly. Use the IPv6 state address auto setting under such an environment.

37.2. About Safari

The usage of memory may increase and Safari may stop with an error when using JPEG as a streaming method with the Plug-in free viewer by Safari 4 or 5.

Please use JPEG Flash as a streaming method or use other browsers when continuous playback for a long time.

37.3. Solid PTZ

When Image 2 is selected in the ActiveX Viewer with the Solid PTZ set to [On], the PTZ operation panel and the whole image are not displayed.

Select Image 1 when using the Solid PTZ.

37.4. H.264 under low luminance

When the image codec "H.264" is selected and the camera used under a low luminance environment, a part of the image looks like fluctuated. To improve this issue, set "XDNR" to "High", set "Image codec" to "JPEG" and/or lower "Gain" if it is increased.

37.5. Flickers under sodium lamp illumination

Flickers may occur under sodium lamp illumination. To prevent this, turn off the View-DR function.

37.6. Edge Storage

When more items or value are set than recommended setting, video and audio might not be able to stream.

The playback might catch up with the recording when playback during recording. In that case, the playback will stop.

While a file with audio and video data is played, the audio and video data may be unable to be played synchronously.

37.7. RTSP

The equipment may restart when used with the setting larger than the recommended one.

37.8. SNC video player

When the last character of folder name which stored a playing file is number, on occasion SNC video player doesn't play properly.

At that time, please use the last character of folder name excluding number.

37.9. Long-time Viewing with Smartphone Viewer

If a large image size is set for the video codec of the camera, the viewer may stop if the

viewer is open for a long time. In such a case, restart the viewer.

37.10. Simultaneous pressing of multiple buttons with Smartphone Viewer

With Xperia™ arc, pressing more than one PTZ button simultaneously may cause the PTZ operation of the camera to continue working. To stop the operation, press one of those buttons again.

37.11. Camera tampering detection and Audio detection setting by SNC toolbox (SNC-CH135)

SNC toolbox cannot set camera tampering detection and audio detection functions for SNC-CH135. Please set these functions by the setting menu.

37.12. MPEG4 image may not be displayed in RTSP streaming

When viewing RTSP streaming with MPEG4 setting, image may not be displayed on some viewers. In that case, please use another viewer or change the video codec setting to H.264.

(Among all models)