SNC-VM772R

Release Note

Ver.1.3.0

2020/1/24

Sony Corporation

Revision history

#	Release date	Version	Major revision and comment
1	2015/07/09	1.0.0	Initial release for VMS integration
2	2015/09/14	1.0.2	Release of firmware for shipment
3	2015/12/11	1.0.5	Application of feedback after shipment
4	2016/02/26	1.0.6	Bug Fix
5	2017/03/29	1.1.0	Newly Added Function Performance Enhancement Bug Fix
6	2018/12/21	1.2.0	Newly Added Function Bug Fix
7	2020/01/24	1.3.0	Newly Added Function Bug Fix

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1. About this Release Version

1.1. General

This release version is 1.3.0

Target model: SNC-VM772R

1.2. Software version upgrade method

To upgrade the camera software to this version, use SNC toolbox V.1.6.1 or later. For the version upgrade procedure, refer to the Application Guide.

1.3. Operating environment

The following operation environment is necessary for the computer used for viewing the camera images or for controlling.

- OS

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

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

  Microsoft Windows 10　(32 bit version, 64 bit version)

  Verified editions:

  Windows 7: Ultimate, Professional

  Windows 8.1: Pro

  Windows 10 : Pro

  Microsoft DirectX 9.0c and later

- Web browser

  Microsoft Internet Explorer Ver 11

  Firefox Ver.70.0 (supporting plug-in free viewer only)

  Google Chrome Ver.78.0 (supporting plug-in free viewer only)

- CPU

  Intel Core i7, 3.4 GHz or higher

- Memory

  8 GB or more

- Display

  3840 x 2160 pixels or higher

- Graphic board

  To display the streaming of 4K/H.264 30fps, use the graphic board equivalent to or better than the following verified graphic boards.

  ・ Verified graphic boards

  - NVIDIA Quadro K620
  - Geforce GeForce GTX960

1.4. Compatibility

Regarding the functions provided in SNC-VM772R Ver1.0.0, this version does not contain any change for the CGI command, RTSP or other network protocol, or data format for streaming. It is compatible with SNC-VM772R Ver1.0.0, Ver1.0.2, Ver.1.0.5, Ver.1.0.6, Ver.1.1.0 and Ver.1.2.0 regarding mutual connectivity with external connected devices.

2. Additional Function

2.1. Functions added / changed in Ver. 1.3.0

- The security has been enhanced.
- Changing the Administrator Password is required when accessing the camera for the first time.

  The default administrator name and password are as follows.

  User name : admin

  Password : Admin_1234

  Set a user name between 5 and 16 characters and a password between 8 and 28 characters. Create a user name and password using half-width characters that do not include ″, (comma)″, ″#″, ″&″, ″:″ or ″(space)″. Passwords must contain both an alphabet and a numeric character.

  [Note] For version up users

  - Before execute version up to V1.3.0, administrator and user names and passwords should be set using above specifications.
  - If you have not set administrator and user names and passwords using above specifications before execute version up to V1.3.0, administrator name and password will be changed to default value after version up to V1.3.0 and all user names and passwords will be cleared. You require to set administrator password as above and all user name and password.
- If the ″Retain current network settings″ item is checked when reseting the camera to factory settings, user name and password for Administrator will be retained after reset in addition to the network settings.

2.2. Functions added / changed in Ver. 1.2.0

- The security has been enhanced.
- TLS 1.2 is supported.
- Auto clear function of Camera tampering detection is supported.

2.3. Functions added / changed in Ver. 1.1.0

- The security has been enhanced.

  [[Note] When you fail in installation of ActiveX, apply the latest Windows security patches.
- Windows 10 is supported
- IPELA logo of WEBUI is removed.
- “Full HD” can be selectable for “Output mode”

- “Reduce the false alarms by environment” function and “Detection sensitivity” function in Motion detection setting are supported.
- The coordinate information notified by metadata.cgi when Intelligent cropping function is used is changed from for trap areas to cropped areas
- “Hours meter” function is supported.
- Time zone setting was changed as below.

<table>
<tr><th colspan="2">Ver. 1.0.6</th><th colspan="2">Ver. 1.1.0</th></tr>
<tr><td>America/Caracas</td><td>(GMT −4:30) Caracas, La Paz</td><td>America/Caracas</td><td>(GMT −4:00) Caracas, La Paz</td></tr>
<tr><td>Asia/Baku</td><td>(GMT +4:00) Baku, Tbilisi, Yerevan</td><td>Asia/Baku</td><td>(GMT +4:00) Baku</td></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td>Asia/Tbilisi</td><td>(GMT +4:00) Tbilisi</td></tr>
<tr><td>Asia/Yerevan</td><td>(GMT +4:00) Yerevan</td></tr>
<tr><td rowspan="2">Asia/Magadan</td><td rowspan="2">(GMT +11:00) Magadan, Solomon Is., New Caledonia</td><td>Asia/Magadan</td><td>(GMT +11:00) Magadan</td></tr>
<tr><td>Etc/GMT−11</td><td>(GMT +11:00) Solomon Is., New Caledonia</td></tr>
</table>

2.4. Functions added in Ver. 1.0.6

- There is no function added in this version.

2.5. Function changed in Ver.1.0.5

- The interpretation of the ONVIF metadata was changed for compatibility improvement, and some of the output specifications were changed.

3. Corrected Problems

3.1. Problems corrected in Ver. 1.3.0

- There was the problem that the video image might be corrupted in rare case when the Time setting (including "Synchronizing with NTP") was set during 4K streaming playback,. This problem has been corrected.
  (Problem in Ver. 1.1.0. Corrected in Ver.1.3.0.)
- There was the problem that the RTSP streaming playback was disconnected with setting the viewer authentication,. This problem has been corrected.
  (Problem in Ver. 1.0.0. Corrected in Ver.1.3.0.)
- There was the problem that the session was rarely disconnected during the RTSP streaming playback,. This problem has been corrected.
  (Problem in Ver. 1.0.0. Corrected in Ver.1.3.0.)
- There was a problem that the port number of the camera could not be changed using the SNCtoolbox. This problem has been corrected.
  (Problem in Ver. 1.0.0. Corrected in Ver.1.3.0.)
- There was the problem that the time zone in the following area did not match the actual time. This problem has been corrected.
  - (GMT +3:00) Moscow,St.Petersburg,Volgograd
  - (GMT +5:00) Ekaterinburg
  - (GMT +8:00) Irkutsk, Ulaan Bataar
  - (GMT +9:00) Yakutsk
  - (GMT +10:00) Vladivostok

  (Problem in Ver. 1.2.0. Corrected in Ver.1.3.0.)

3.2. Problems corrected in Ver. 1.2.0

- In RTSP multicast streaming in an environment where packet loss occurs frequently, there was a problem that the camera might be restarted. This problem has been corrected.

3.3. Problems corrected in Ver. 1.1.0

- There was a problem that new moving object may not be recognized after previous object goes away from trap area in Intelligent coding function. This problem has been corrected.
- There was a problem that single moving object would be cropped into two areas in Intelligent cropping function. This problem has been corrected.
- Color reproductivity under sodium vapour lamp has been improved.
- There was a problem that when performing streaming display on ActiveXViewer, the video may not be displayed smoothly if B picture is enabled. This problem has been corrected.

- There was a problem that “Main” is displayed as the option of the H264 profile when the image size is set to 4K. This problem has been corrected.
- There was a problem that if the picture profile switching condition is changed to “Sensor Input” from any other options, the pull-down menu of the sensor input may display “LIGHT SENSOR”. This problem has been corrected.
- There was an incorrect description in the note displayed on the Day/Night tab. This problem has been corrected.
- There was a problem that if reconnection of RTP/RTSP over HTTP streaming occurs at the timing where Link Down of the network interface switches to Link Up due to such reasons as a network switch defect, communication with the camera may be disabled in rare cases. This problem has been corrected.
- There was a problem that when “Font size” is set to Medium/Small/Auto and “Type” is set to Event in Superimpose function, the camera may restart in rare cases. This problem has been corrected

3.4. Problems corrected in Ver. 1.0.6

- There was a problem that the ActiveX plug-in module (Motion detection/Face detection) can not be installed when the camera is accessed from PC. This problem has been corrected.
  (Problem in Ver. 1.0.5. Corrected in Ver.1.0.6.)

3.5. Functions improved in Ver.1.0.5

- The specifications of the setup screen was changed so that the specifications where View-DR can be set regardless of the output mode can be set only at the time of 4K multi-streaming where View-DR becomes enabled.
- The range for the motion tracking of intelligent coding was enlarged, improving visibility.
- The characteristics of NR (XDNR) and exposure control were changed, improving visibility for moving objects under dim environments.
- There were cases where the tracking frame was not displayed in the moving object detection setup screen after a long hours of use. This problem was corrected.
- There were rare cases where it restarted or the camera did not respond. This problem was corrected.
- There were cases where the communication was cut on the way during the RTP over RTSP connection. This problem was corrected.
- There were cases where the Edge Storage playback became unstable. This problem was corrected.

- When making an inquiry of CapableBitrate<n> of Video Capability, if the inquiry was made with target=All, the value limited by the maximum value of VBR Bitrate was returned. This problem was corrected.

4. Functional Limitations

4.1. Video frequency setting and monitor refresh rate setting

ActiveXViewer uses Direct2D to display the 4K streaming images smoothly. To display the images smoothly, match the video frequency and the PC monitor's refresh rate frequency before use. (It is necessary to set the PC monitor's refresh rate to 60[Hz] or 50[Hz] to match the video frequency of 60[Hz] or 50[Hz], respectively.)

4.2. Edge Storage recording of Evidence Shot mode Image1

The recording bit rate in the Evidence Shot mode Image1 (Motion JPEG) may exceed the guaranteed rate (8 Mbps) of Edge Storage depending on the shooting object. Be careful when setting it.

4.3. PC setting when displaying ActiveXViewer

When the PC display is set to a zoom setting (eg: 125%, 150%), a part of the live screen of ActiveXViewer may not be displayed. To display the entire image, set the PC display to 100%.

[PC display setting procedure]

① Open the control panel, and display all the control panel items.

② Select and click Display from the control panel items.

③ Select 100% for the display setting, and click Apply.

The default is set to 100% so normally no setting is required, but if it is set to anything other than 100%, follow the above steps to set it back to default.

4.4. Check function of User/Password

If "&" is entered to User or Password, a warning message saying "Invalid parameter" appears, but no warning message appears even if any other prohibited character ("," (comma), "#" (sharp), " " (space), ":" (colon)) is entered. So be careful.

4.5. Switching setting of the picture profile

The schedule setting of "event occurrence setting" will be valid when the condition for the next event occurrence is established. For example, even if the event occurrence setting is performed while the condition for event occurrence is established, the setting will not be applied immediately, and it will be applied when the condition is established next time.

4.6. Display latency

When displaying the streaming of FHD or lower on ActiveXViewer, the display latency can be

shortened by disabling the hardware acceleration. (The hardware acceleration process will be enabled for the 4K streaming display, so there is no influence to the image quality by disabling the hardware acceleration for FHD or lower sizes.)

4.7. Edge Storage recording after pressing the SD OFF switch

To perform the Edge Storage recording after pressing the SD OFF switch during Edge Storage recording with the record start button for the Edge Storage recording set to ON, or with the Schedule tab / EdgeStorage tab / EdgeStorage video – "Always" checkbox set to ON, and then reinserting an SD card, perform the recording start setting again.

4.8. Intelligent coding

The number of the moving object tracking setting is limited to 4. If it is expected that there will be many moving objects, or if the moving objects move fast, it is recommended to use the fixed range setting at the same time.

4.9. Upgrading with SSL function

Upgrading with SSL function enabled may fail. It is recommended that you disable the SSL function of camera and then perform the upgrade. After the upgrade, please use the SSL function setting back to original.