This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09 2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | | L | ity I .eve | | | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update | | ary to update) | | |
|--------------------------------------|------------------|----|---------------|-------|----------|--|----------------|--|---|--|
| | | Α | В | С | U | Issue (Phenomenon) | | Occurrence condition | | |
| 1.03 (4.50.14) May, '17 | | | | | | First production. | | | | |
| 1.05 (4.50.14) June, '17 | | | | x | | Not working VMD function after a power cycle (turned power off then on) even if the VMD setting were activated. | On firi | mware version 1.03. | Fixed. | |
| 1.08 (4.50.14) July, '17 Ac | U Ided | on | July | / 8,2 | X | | | - | Improved Auto-Focus functio | |
| 1.20 (4.50.14) July, '17 | U | | | | x | - | | - | Supported Extension Softwa | |
| 1.21 (4.50.14) | с | | | | x | Camera may not start up at low temperature. | When switch | using some certain PoE+ compatible nes. | Fixed. | |
| Sept., '17 | | | | | x | Aborted video transmission in multicast transmission. | When | "On" is selected for "Stabilizer". | Fixed. | |
| 1.22 (4.50.14) Oct., '17 | с | | | x | | Camera picture may be solid black. | | - | Fixed. | |
| | | | | | x | - | | - | Added a support page and so code. | |
| | | | | | x | - | | - | RTSP distribution abolished multicast. | |
| | | | | | x | - | | - | In CGI command, expanded Added response format "3" s alarm / i-VMD could be acqui | |
| | | _ | | | х | - For WV-X6531NH only | | | In ONVIF®, improved accura | |
| Ver1.70 | | | | | x | • | | - | Profile S compliant service or settings. | |
| (4.50.20) Nov.,'17 | С | | | | x | - | | - | Added HD EX optical zoom f | |
| 1000., 17 | | | | | x | - | | - | Added a message in the sett "It is not available when "60f | |
| | | | | x | | Tilt's coordinates were reversed for ceiling and tabletop installations. | | - | Fixed. | |
| | | | | | х | - | | - | Changed the hue etc. even if | |
| | | | | x | | Missing display the "VMD / i-VMD" column in i-VMD "Alarm". | In Spa | anish only. | Fixed. | |
| | | | | x | | When setting i-VMD depth, after drawing and registered rectangle, the coordinates of the rectangle would be shifted in the upper left direction when the screen was redisplayed. | | - | Fixed. | |

*: ONVIF is a trademark of Onvif, Inc. Correspondence tion. are, Model WV-XAE100W. so that it possible to access to support page by QR I the constraint which was only unicast while selecting ed the parameter of "get_io2". so that information on sound detection / command uired. racy of PTZ value up to 5 decimal places. on ONVIF®, made available for streaming in H.265 function. etting screen for SD memory card;

Ofps" is selected for [Image capture mode]."

if only the brightness were changed.

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|---------------------------------------|------|------|---------------|--------|--------|---|---------|--|---|--|
| | | Α | в | С | | Issue (Phenomenon) | | Occurrence condition | | |
| | | | | x | | At displaying system log, display the log in two lines. Also display shifting the date and time of occurrence and contents column each other. | In case | e outputting log with a long character string. | Fixed. | |
| | | | | x | | Camera may reboot by changing image capture mode. | When | use with recorder. | Fixed. | |
| | | | | x | | Camera may reboot by accessing with a browser other than Internet Explorer (IE). | | - | Fixed. | |
| | | | | | x | - | | - | Deleted encryption protocol 1 | |
| Ver1.70 | | | | | x | - | | - | Improved Auto Focus speed | |
| (4.50.20) Nov.,'17 | С | | | | x | - | | - | Improved optical zoom speed | |
| , | | | | | x | - | | - | Improved for the image at th Super Dynamic "On". | |
| | | | | x | | RTSP connection may be disconnected upon receiving an incorrect RTSP request. | | - | Fixed. | |
| | | | | x | | RSTP connection may be disconnected very rarely by sending RTSP request reception and RTSP response transmission at the same time. | | - | Fixed. | |
| | | | | х | | - | | - | Improved communication qua | |
| Deleted on N | ov.2 | 9,20 |)17 | \neg | \leq | Except WV-X6511N. | | | | |
| Ver1.80 (4.50.20) | С | | | | * | = | | = | Added SD memory card passw | |
| Dec.,'17 | Ŭ | | | х | | - | | - | Fixed an issue in the cgi com | |
| | | | | х | | - | | - | Improved autofocus during m | |
| Ver1.81 (4.50.20) Feb.,'18 | U | | | | x | Upgrading firmware might fail. | | Revised on Nov.29,2017 | Fixed. | |
| | | | | | | For WV-X6531NH only. | | | | |
| Ver1.82 (4.50.20) Mar.,'18 | С | | | | x | - The specified image capture size may not be obtained | | - | Changed factory default setti 传送模式: 恒定速率 带宽(每个客户端: 3072kbp 音频模式: 音频输出 输入音量: 线路 中 AGC(音频): Middle | |
| | | | | | х | even if it were specified with ImageViewer by CGI command. | | - | Fixed. | |
| | | | | | х | - | | - | Improved auto focus converg | |
| | | | \square | х | | Administrator password may be deleted. | | - | Fixed. | |
| Ver1.83 (4.50.20) Apr.,'18 | С | | | x | | "Additional info for detecting alteration" might not displayed on SD memory card security settings. | | - | Fixed. | |
| Apr., 18 Corrected on May22,201 | | | | x | | - The stabilizer might not effect. | | - | Improved stabilizer to be mor Fixed. | |

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| I TLS 1.0 for security purpose. |
| d at normal brightness and low light intensity. |
| ed. |
| the high luminance part not to saturate over when |
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| uality on video streaming in H.265/H.264. |
| |
| sword lock function. |
| ommand "/Set?Func=Bright&Kind=1&Data=-2" |
| manual zooming. |
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| tting values as follow; |
| ops |
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| ergence speed quicker. |
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| ore effective when it was used for a long time. |

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| | | Α | В | С | U | Issue (Phenomenon) | Occurrence condition | | |
| | | | | | x | - | _ | Changed factory default se Previous: "Digest or Basic" New: "Digest" | |
| | | | | | | | | For more details: | |
| 1.90 (4.50.20) June, '18 | с | | | | x | - | - | Changed password policy f "upper case letters / lower of here. Note: Original passwords and au unchanged even firmware | |
| | | | | | | | | For more details: | |
| | | | | | х | - | - | Added user authentication | |
| | | | | | x | - | - | Became saving history of lo | |
| | | | | | | Except Chinese market model, WV-X6531NH. | | 1 | |
| | | | | | x | - | - | Changed saving setting da Note: unable to restore the | |
| | | | | | х | - | - | Made some other security | |
| | | | | | | Except Chinese market model, WV-X6531NH. | | • | |
| | | | | | X | - | - | Added "EAP-TLS" to the EA | |
| | | | | | x | - | - | Added "Drawing method", ' is Heavy Processing Load) | |
| | | | | | x | - | - | Added "Reboot" to "Schedu | |
| 1.90 (4.50.20) June, '18 | с | | | | x | - | - | Added a choice of "2pics/2 mode" in "Best shot functio Note: Concerning the models on use the Best shot function. | |
| | | | | | x | - | - | Changed factory default se Previous: Unlimited New: 51200kbps | |
| | | | | x | | Communication may be disconnected when acquiring network information with SNMP. | - | Fixed. | |
| | | | | x | | Network connection may not be possible due to the MAC address authentication with the network device may not be done properly at startup. | - | Fixed. | |
| | | | x | | | Temperature compensation at lens may not work correctly and the focus sometimes shifts little by little. | - | Fixed. | |

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etting for Authentication method;

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that it must include at least 3 types of characters among case letters / numbers / symbols". For more details, click

uthentication method of products on the system are kept and software have been updated.

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at host authentication.

login failure into system log.

ata with encryption. e setting data if you would downgrade the firmware.

measures enhanced.

AP method for IEEE802.1x.

"Decoding options" and "Frame Skip Options (When PC)" onto plug-in software.

lule".

2s" for "Transmission interval" setting of "Transmission on".

this document, the models are NOT recommended to

etting for "Bandwidth control(bit rate)"

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|--|-------|-----|--------|---|--|---|--------|----|---|---------------|--|
| | | A | вС | U | Issue (Phenomenon) | Occurrence condition | | | | | |
| | | | x | | Unable to configure the setting relating to the e-mail notification by the cgi command "reg_mailaddr". | - | Fixed. | | | | |
| 1.90 | | | x | | Focusing may not work. | - | Fixed. | | | | |
| (4.50.20) June, '18 | С | | x | | If an RTSP header contains two or more User-Agent headers. no HTTP400(Bad Request) error returned and ignore the second and subsequent User-Agentheaders. | - | Fixed. | | | | |
| Added on July 27,2 | 018 | | x | | It was usable even if the certificate for using HTTPS has expired. | - | Fixed. | | | | |
| | | | x | | Solid black screen may appear during sequencing with the network disk recorder due to it takes time to output the video. | - | Fixed. | | | | |
| | | | x | | SD memory backup recording did not stop. | By turning power on / off while SD memory backup recording during connecting with the network disk recorder. | Fixed. | | | | |
| 1.91 (4.50.20) July, '18 | С | | x | | Revised on Sept. 7, 2018 Camera may reboot, unexpectedly. | When sequencing the network disk recorder and or me video management software (WV-ASM series) with "SD memory backup" enabled simultaneously. | Fixed. | | | | |
| ~ | | | x | | | By downloading the SD memory backed up data with the network disk recorder | Fixed. | | | | |
| Revised on A | | | x | | Recording may not retain when restarting camera. | In an environment where the communication state | Fixed. | | | | |
| 4 On A | ug. 9 | 201 | X | | Recording may not stop at restoration of communication | is unstable | Fixed. | | | | |
| | / | | 8 X | | Did not work Hardware decode of plug-in software may not work when selecting compression method "H.265". | - | Fixed. | | | | |
| 1.92 (4.50.34) | C_ | 20 | x | | Frame rate and bit rate may drop. | By transmitting H.264/H.265/JPEG live images continuously over 1 year without being rebooted. | Fixed. | | | | |
| 1.92 (4.50.34) Aug., '18 Revised on | Nov. | 7,6 | x | | May not be able to zoom in with multi-screen display by dragging with mouse. | - | Fixed. | | | | |
| he | | | x | | Camera may restart by disconnecting the camera's LAN cable while transmitting video in UDP. | In AC power operation. | Fixed. | | | | |
| | | | x | _ | Picture may not be displayed according to the frame rate. (Occurrence frequency : Rare) | When Image quality to be set in Motion priority (Frame rate). | Fixed. | | | | |
| 1.93 | | | x | | The frame rate may be temporarily decreased. (Occurrence frequency : Rare) | During the pan/tilt operation. | Fixed. | | | | |
| (4.50.34) Oct., '18 | С | | x | | The operation speed may slow down and the followability may be decreased. | | Fixed. | | | | |
| | | | x | | Operating speed may be slowed. | During the manual zooming. | Fixed. | | | | |
| | | | x | | Focus may shift out. | In an outdoor low light environment | Fixed. | | | | |
| | | | x | | ONVIF RTSP Multicast may not be transmitted. | - | Fixed. | | | | |
| 1.94 (4.50.34) Nov., '18 | С | | x | | Multicast related settings ("Transmission type" setting and some others) may restore to the factory default settings by upgrading firmware from version 1.82 (or earlier) to version 1.90 (or later). | - | Fixed. | | | | |

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| | | Α | В | 0 | U | Issue (Phenomenon) | | Occurrence condition | | |
| | | | | | x | - | | - | Improved detection capabilit Recognition Server Software Note: Not recommended pro | |
| | | | | | x | - | | - | Settings of "HTTP max segn - JPEG transmission for Fac - "HTTP alarm notification" | |
| Ver2.00 | | | 2 | x | | Camera may restart, unexpectedly. (Occurrence frequency: Rare) | | e of high load such as multi-stream nission at 60fps etc. | Fixed. | |
| (4.50.34) Dec.,'18 | С | | | x | | (Occurrence frequency: Nare) | By rec | eiving ONVIF command continuously. | Fixed. | |
| D00., 10 | | | 2 | x | | Camera may send corrupt AAC-LC data. | | the transmission is delayed due to the rk environment etc. | Fixed. | |
| | | | 2 | x | | Video distribution may not be possible. | Profile | the configuration of UI setting for Baseline were as follow; s, H.264, FHD, Other than VBR | Fixed. | |
| | | | 2 | x | | Communication error may occur. (Occurrence frequency: Rare) | While NX se | connecting with Network Disk Recorder, WJ- ries. | Fixed. | |
| | | | | | х | - | | - | Added "Overlay Image" func | |
| | | | | | х | - | | - | Added "VIQS (Variable Imag | |
| | | | | | x | - | | - | Added a choice of "On(Fram | |
| | | | 2 | x | | The refresh interval value may not be reflected in the CGI command as follow; /cgi- bin/set_h264?f_priority=4&nr_framerate=1&h264_bandwi dth=64&h264_quality=9&h264_lvop=0.2 | | - | Fixed. | |
| Ver4.00 (4.50.35) | С | | 2 | x | | Black screen may be displayed back while recording H.264/H.265 to SD memory card and turning power Off and On. | | - | Fixed. | |
| Feb.,'19 | | | | | x | _ | | _ | Improved resolution feeling display. | |
| | | | | x | | May not be able to change the save destination at the time of FTP periodical transmission error. | | - | Fixed. | |
| | | | 2 | x | | The settings of SMTP server may return before the setting by restarting the camera. | | - | Fixed. | |
| | | | | | | Except Chinese market model, WV-X6531NH. | | | | |
| | | | | | х | - | | - | Enhanced security. | |
| | | | | | x | - | | - | Changed the URLs of hype- URL (from "http" to "https"). | |

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| ity of "face wearing a mask" at detecting face by Facial re, WV-ASF950, etc. oduct for Face best shot function. ment size(MSS)" to be relating to the camera action; |
| ce Best Shot |
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| ction. |
| ge Quality on Specified area)" function. |
| me rate control)" to "GOP Control" in "Smart coding". |
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| in JPEG still image update at multiscreen in full screen |
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| |
| |
| -link destination according to change of support page |

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| | | Α | В | С | U | Issue (Phenomenon) | | Occurrence condition | |
| | | | | x | | TE OD TDE SUD MODILOLADO CUCKIDO TDE TUU SCIEED DISDIAV | When sub. | using the two monitor screens of main and | Fixed. |
| | | | | | х | - | | - | Improved the visibility of cha |
| | | | | | | For Chinese market model, WV-X6531NH, only. | | | |
| | | | | | x | - | | - | Changed factory default sett - Internet mode (over HTTP) - Image capture mode from 3 - Date/time display format - Time zone from "GMT |
| | | | | | x | _ | | - | Added a message as follow "VMD permission" is requi Setting is not necessary w |
| | | | | | | - | | - | Changed a message by click Delete the log and image a not displayed. (All of data selected by "E |
| Ver4.00 | 0 | | | | | The recorded data of the log one before the relevant time might be downloaded when downloading the recorded data from the log list. | | - | Fixed. |
| (4.50.35) Feb.,'19 | С | | | | x | - | | - | ONVIF ProfileT Supported Scope/Scene Ch |
| | | | | | x | - | | - | ONVIF ProfileT Supported Scene Change E |
| | | | | | x | - | | - | ONVIF ProfileT Supported ONVIF Event Col |
| | | | | x | | There was an issue at GetVideoEncoderConfigurationOptions in ONVIF 60fps mode. | | - | Fixed. |
| | | | | х | | Camera may restart unexpectedly while receiving ONVIF command continuously. | | - | Fixed. |
| | | | | x | | XML may be a syntax error by ONVIF Event command due to the XML namespace prefix was not defined at WS-Addressing. | | - | Fixed. |
| | | | | x | | Multicast parameters did not appear in the Milestone stream setting when ONVIF camera was registered in Media 2. | | - | Fixed. |
| | | | | | x | - | | | Changed the response of "/c It became not to notify CGI r continuously. |

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| naracters in the date/time screen. |
| |
| ttings as follow; |
| P) from "On" to "Off" |
| 1 30fps to 25fps, SD from "Off" to "On" |
| from "DD/MM/YYYY" to "YYYY/MM/DD" /T+00:00" to "GMT+08:00" |
| v in the "Schedule" page; |
| uired when assigning the period to be detected. |
| when detection at any time. |
| cking the Delete button in the log list window to; |
| e as the result of retrieval including the page where log is |
| Event" and "Recording time" are deleted.) |
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| |
| hange Event, Property/DeviceIO/Metadata Sync. |
| |
| Event. |
| |
| ontent Filter. |
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| |
| /cgi-bin/get_io2?format=3&"; |
| response each time even if detecting command alarm |

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| | | Α | вС |) ι | ٦ | Issue (Phenomenon) | | Occurrence condition | | |
| | | | > | ¢ | | When one network is disconnected from the network, the same alert screen is displayed for other cameras. | While | using multi-screen display. | Fixed. | |
| | | | > | (| ' | Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card. | | - | Fixed. | |
| | | | | x | x | - | | - | Made Stream(3) available w | |
| | | | , | (| | RTC communication may not be normal in rare cases when turning power from OFF to ON. | | - | Fixed. | |
| Ver4.00 | | | > | (| ŀ | When deleting SD card data on the log list screen, data that can not be deleted may be left while displaying the play window. | | - | Fixed. | |
| (4.50.35) Feb.,'19 | С | | > | (| | Camera may restart upon receipt of certain CGI commands (those are to change H.264/H.265 1st stream quality / bitrate / resolution without disconnect the stream). | While | face detection or face best-shot is enabled. | Fixed. | |
| | | | > | ĸ | - | Transmission type (H.264/H.265) and image capture size of stream may not be changed (transmission type and image capture size hold before change). | | rk had been disconnected with over RTSP | Fixed. | |
| | | | | x | x | - | | - | Improved visibility of "SDRE | |
| | | | | x | × | - | | - | Changed encryption method [Important Information] It is not possible to restore th (or later) to the camera that o | |
| Ver4.01 | | | > | (| | | | the setting of overwrite recording to SD ry card is "On". | Fixed. | |
| (4.50.35) Feb.,'19 | В | | > | (| - | Communication may stop even if connected with a PC or switch after starting up by PoE injector or external power supply (24V AC / 12V DC). | | - | Fixed. | |
| | | | | x | x | - | | - | Security has been enhanced | |
| | | | > | (| 1 | Audio may not output by attempting to connect two sessions simultaneously and failure to authenticate one of them. | | - | Fixed. | |
| Ver4.10 (4.50.35) June,'19 | С | | | x | x | - | | - | Added a note in the window Update", "Dynamic DNS Upo | |
| | | | T | x | x | - | | - | Supported multi-browsers ot Some restrictions apply: click | |
| | | | | x | x | - | | - | Improved smooth text displa gradations to grayscale. | |

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| when "On" is set for Stabilizer. |
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| |
| EC" button on the window for tablet PC. |
| od of setting data along with strengthening security. |
| |
| the setting data backed up with firmware version 4.00 t operates in version earlier than Ver 4.00. |
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| ed. |
| ли. |
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| v of DDNS setting page when using "Dynamic DNS pdate(DHCP)". |
| other than the Internet Explorer. |
| ck here for details. |
| ay by changing the texts on the screen from 2 |

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| | | Α | в | С | U | Issue (Phenomenon) | Occurrence condition | |
| | | | | | x | - | - | Added a CGI command to m /Set?Func=SoftTrigger or /o |
| | | | | x | | Sent an e-mail with an image being moved to the preset position upon receipt of the alarm. | - | Fixed. |
| | | | | | | For Chinese market models only | | 1 |
| | | | | | х | - | - | Changed factory default sett UTC+8. |
| | | | | | x | - | - | Added interference detectio |
| | | | | | х | - | - | Added "Alarm area No." set |
| | | | | | х | - | - | Display the license of open s |
| | | | | x | | ONVIF communication may become a cause of destroying resources. | | Fixed. |
| | | | | х | | - | - | Fixed Session Description F |
| | | | | х | | Unable to find ONVIF search. | - | Fixed. |
| Ver4.10 (4.50.35) June,'19 | С | | | x | | JPEG frame rate setting display becomes 0.33 fps by changing image capture mode rom 25 fps to 30 fps with CGI (/ cgi-bin / setdata? IMG_MODE) although actual transmission rate is 5 fps. | - | Fixed. |
| | | | | | | For Chinese market models only | | |
| | | | | | х | - | - | Supported On-Screen Displa |
| | | | | | x | - | - | The file may not be found by SD memory card and attem |
| | | | | | x | - | - | Improved responses to ON |
| | | | | x | | PTZ may not stop even if it received stop command in ONVIF. | - | Fixed. |
| | | | | | x | - | - | The camera may restart by e transmission mode AAC-LC |
| | | | | | х | - | - | Improved accuracy of Click- |
| | | | | x | | Displayed "Approx. 2 min." for an alert of initializing operation. | - | Corrected the display to "3 r |
| | | | | x | | Displayed "8 min" at upgrading firmware with selecting "Reset the settings to the default after completing the upgrade". | - | Corrected the display to "11 |

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Correspondence

make an alarm;

·/cgi-bin/Set?Func=SoftTrigger or /cgi-bin/comalarm.cgi

etting of the time zone to Chinese Standard Time(CST),

ion information to additional information when using the in software.

etting to the "Preset per sender".

source software (OSS) on upgrade screen.

Protocol/SDP (IPv6) on ONVIF.

play (OSD) in Chinese.

by opening the log list during overwrite recording of the mpt to browse.

NVIF commands for PTZ cameras.

y encrypting the stream 1 only, selecting audio C and recording video and audio simultaneously.

k-to-Center".

3 min".

1 min".

This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09

2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | | L(| ty R evel | | | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | te) | |
|--------------------------------------|---|----|--------------|---|---|--|--|--|
| | | Α | В | С | U | Issue (Phenomenon) | Occurrence condition | |
| | | | | x | | The image may shake slightly to the left and right at stopping by manual pan and tilt operations with a zoom ratio of 4.0 times or less. | - | Fixed. |
| Ver4.11 (4.50.35) July,'19 | С | | | x | | The face best-shot image used to display face search history data on Video Management Software may not be created correctly. (Occurrence frequency: Rare) | - | Fixed. Note: The cameras are NOT |
| | | | | x | | The camera may restart when live sequence display by network disk recorder or Video Management Software without distributing H.264 or H.265 for recording. (Occurrence frequency: Rare) | - | Fixed. |
| | | | | | х | - | - | Improved accuracy of the pri |
| | | | | | x | - | - | In FTP / SNMP authentication failing authentication more the f |
| | | | | | x | - | - | Supported EasylpSetup soft numbers of devices. |
| | | | | | x | _ | _ | Updated (Enhanced) SNMP The document of i-PRO cam following URL; |
| | | | | | | | Corrected on Nov. 8, 2019 | https://security.panasonic.com/t |
| | | | | | х | - | | Improved so that available to |
| | | | | | x | - | - | Improved Pan/Tilt operability Software). |
| Ver4.20 (4.50.35) Sept.,'19 | С | | | x | | Failed upgrading firmware by sending a certain CGI command for camera operation under VMS (Video Management Software) environment. Also unable to operate Pan/Tilt. | - | Fixed. |
| | | | | x | | Recording may not stop when changing imaging capture mode. | - | Fixed. |
| | | | | x | | "Auto track" by self-return does not work after losing the object when Lost object search of Auto track = "off". | - | Fixed. |
| | | | | x | | VMD Alarm may not be detected even if crossing the line at the bottom of the screen. | - | Fixed. |
| | | | | x | | Zoom stops momentarily for each Zoom operation by making a PTZ operation with ContinuousMove command of ONVIF. | - | Fixed. |
| | | | | x | | The slide-bar for VMD may not be able to be slid. | In Compatibility View mode on Internet Explorer. | Fixed. |
| | | | | x | | Stop position by patrol may shift when the shutter becomes slower, such as at night. | - | Fixed. |

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OT recommended to use the face best-shot function.

privacy mask position.

tion, "Authentication error" is logged in the system log by than a certain condition.

oftware (Ver4.31R00) and became to display serial

IP MIB information. Amera management information (MIB) is available at the

n/training_support/panasonic_device_integration/snmp-mib/

to connect with HIKVision recorder by CGI command.

lity when connected to VMS (Video Management

| VER (ActiveX VER) Release Date | X VER) Level B: When issue happened c: Maintenance timing U: Function /Performance improvement (Not Necessary to update | | ate) | Contents | | | | | |
|--------------------------------------|---|-------|------------|----------|---|--|-------------------|---|--|
| | | Α | В | С | U | Issue (Phenomenon) | | Occurrence condition | |
| | | | | x | | The camera may restart due to memory access error. (Occurrence frequency: Rare) | | - | Fixed. |
| Corrected or Ver4.20 (4.50.35) | n Oct | 9, 2 | 2019 | × | | Fixed the auto tracking standby display that was displayed as Operation mode display: On. ("AUTO TRACK WAITTING">"AUTO TRACK WAITING") | | - | Fixed. |
| Sept.,'19 Added on N | ov.2 | 5, 20 | 019 | × | | The camera may fail in upgrading of firmware, in VMS (Video Management Software) connection environment (sending a certain CGI command for camera control), and become unable to do Pan/Tilt operation or the like. | | - | Upgrade the camera with the time. |
| Ver4.22 (4.50.35) | с | | | x | | "Transmission type" and "Multicast address" configured by system configuration tool, may not be saved. | | _ | Fixed. |
| Nov.,'19 | Ū | | | | x | - | | - | Improved a phenomenon that |
| Ver4.23 (4.50.38) Jan.,'20 | U | | | | x | - | | - | Supports multi-browsers Goo in addition to Internet Explore - the setup screen of the exter - i-VMD frame display on the - the face detection frame on |
| | | | | | x | - | | - | Changed the company name |
| | | | | x | | The camera may restart unexpectedly due to the irregularity in the data transmission/receiving process in the memory. (Occurrence frequency: Rare) | | - | Fixed. |
| Ver4.25 (4.50.38) Mar.,'20 | С | | | x | | The camera may restart unexpectedly due to the irregularity in the alive monitoring process. (Occurrence frequency: Rare) | | _ | Fixed. |
| | | | | x | | The camera may show black images on its "Live" window. (Occurrence frequency: Rare) | | - | Fixed. |
| | | | | | x | - | | - | Added "SNMP trap setting" ir (Click here for detail) |
| | | | | | x | - | | - | Added a CGI command "/cgi selectable on the "Image cap |
| Ver4.30 | | | led: | | x | - | | - | Private zone setting / Patrol s Changed the image display f check the changes on the im |
| (4.50.38) April, '20 | В | Jun | e, 20 X |)20 | | The camera recognizes a specific PoE+ injector as PoE. | - | ector does not support the specification of negotiation. | Added a CGI command "/cgi operating on PoE+ injector. |
| | | | | | x | - | | - | Improved the response spee |
| | | | | x | | I ive image may not be displayed and keeps showing | temper Then, r | the camera has started in the low rature out of specification. restart the camera after rising to the rature within specification. | Fixed. |

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| Correspondence |
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| |
| ne file of firmware version 4.20 (or later) for a second |
| |
| nat CPU load might increase after updating for V4.20. |
| oogle Chrome, Firefox and Microsoft Edge rer for; tension function "i-VMD" |
| e live image on the live image |
| ne in the plug-in software Active X to the new one. |
| |
| |
| |
| |
| |
| |
| in [Network] > [Advanced] > [SNMP]. |
| |
| gi-bin/setup_menu_disp?25fps=1" to make 25/50fps apture mode" menu. |
| l setting: rformat from JPEG to H264/ H265 to make it easier to mage. |
| gi-bin/poe_ctrl?mode=on" to force the camera to start |
| ed of the ONVIF command related to PTZ preset. |

This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09

2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | Pr | iori Le | ty R evel | | k | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to upd | ate) | |
|--------------------------------------|----|------------|--------------|---|---|---|---|---|
| | | Α | В | С | U | Issue (Phenomenon) | Occurrence condition | |
| | | | x | | | All sessions get disconnected by executing the ONVIF® commands for changing the framerate and the resolution. | - | Fixed. |
| | | | | х | | - | - | Changed the date character to "DateAndTime" format as |
| | | | | | x | - | - | Supports multi-browsers Go Internet Explorer for; - Playing back the images o |
| | | | | | | | | (Click here for detail) |
| | | | | | x | - | - | Changed the URL, QR code "Support" menu. |
| | | | x | | | Manual recording may not work outside of "Access permission" hours on "Schedule". | - | Fixed. |
| | | | | x | | Except Chinese market model, WV-X6531NH. Installing "CA certificate" opens two installation screens, | | - |
| | | | | | | a small window and a tab. | - | Fixed. |
| Ver4.30 (4.50.38) April, '20 | В | | | x | | On the "/cam" window for mobile terminal, reloading the image will show the normal live images when the camera is switched to the "Access permission" period from inaccessible period. | - | Fixed. |
| | | | | | x | - | - | Improved the response whe |
| | | | x | | | Selecting the image capture size on the "Image" tab may change the bit rate to 3Mbps. | - | Fixed. |
| | | | | | x | - | - | Changed the default value o seconds. |
| | | | | х | | - | - | Corrected the coordinate of |
| | | | | | x | - | - | Enhanced the access restric |
| | | | x | | | The below phenomena occur: - Fail in acquiring the setting data - Fail in upgrading firmware - Auto-pan does not stop at the time set to stop | Under both of below conditions: - "Maximum shutter" is 6/30s or longer - The shooting subject is dark | Fixed. |
| | | | | | x | - | - | Enhanced security. |

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er string format for response which responds via SNMP as it was not transmitted correctly.

Google Chrome, Firefox and Microsoft Edge in addition to

on SD memory card

de and Data_Matrix linked to the support page on the

nen reconnecting in HTTPS connection on Windows 10.

e of ONVIF DefaultPTZTimeout from 2 seconds to 60

of the transmitted contents in ONVIF Metadata.

riction function of SNMP v1/v2.

This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09

2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | | | ity eve | Ran el | k | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | ate) | e) | | |
|--------------------------------------|---|---|------------|-----------|---|---|--------------------------------------|--|---|--|
| | | Α | В | С | U | Issue (Phenomenon) | | Occurrence condition | | |
| | | | | | x | - | | - | Changed the below default s - [Internet mode]: from "OFF" | |
| Ver4.30 (4.50.38) April, '20 | В | | | x | | The process load on the camera may become high unexpectedly when: - The LAN cable of the network disk recorder on thereceiving side is disconnected. - The network disk recorder is powered off. (Occurrence frequency: Rare) | | streaming H.265 video using RTP over protocol | Fixed. | |
| | | | | x | | The camera may not record the images in an SD memory card. | | - | Fixed. | |
| | | | | | x | - | | - | Changed the company name | |
| Ver4.31 (4.50.38) July, '20 | В | | x | | | The camera keeps changing the image brightness to low and high alternately until it is rebooted. (Occurrence frequency: High) | [Image "30fps withou * This | the camera operates continuously with e capture mode] set to the default value a mode" for more than approx. 2 years* it being rebooted. period will be shortened to approx 1 year for a mode". | Fixed. | |
| | | | x | | | The camera may reboot. (Occurrence frequency: Low) | - sequ - sequ | nued operation of the following: ence display with a network disk recorder ence display with WV-ASM series software [Live image source] is set to "Camera" | Fixed. | |
| Ver4.50 (4.50.38) Nov., '20 | В | | | | x | - | | - | Changed the behavior relate changed from "HTTP" to "HT Previous versions: the came selected one is larger than 4 This version or later: the cam | |
| | | | | x | | The position or area specified in the below operations is misaligned: - click to adjust the center position on the "Live" page - drag the mouse to select a desired area in the main area of Live image (Occurrence frequency: High) | When | "Stabilizer" is "On" | Improved the positioning acc | |

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lt setting. FF" to "ON"

me in the plug-in software Active X to the new one.

ated to bit rate when the communication protocol is HTTPS" as below.

mera automatically sets the bit rate to 4 Mbps when the n 4 Mbps.

amera does not change the bit rate.

accuracy.

This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09

2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date |) | Priority Rank Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | | A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing | te) | | | |
|--------------------------------------|------|---|------|--|-----|--|---|---|
| | | Α | в | С | U | Issue (Phenomenon) | Occurrence condition | |
| | | | | | x | - | - | Improved the response to the ratio in percentage. |
| | | | | | x | - | - | Changed the dafault setting language is not Japanese. |
| | | | | | x | - | - | Changed the default setting [Network] tab, from "Auto(A |
| Adde | d: M | arch | , 20 | 21 | | Except Chinese market model, WV-X6531NH. | | |
| | | | | | х | - | - | Added the On/Off setting fo function to the [Advanced] t |
| Ver4.60 | | | | | x | - | Addeu: March, 2021 | Improved the [HTTP alarm 1. Supports Digest authenti - The camera performs eith response from the HTTP se 2. Adds an error log for the - Displays " <http alarm="" no<br="">the authentication fails. 3. Supports HTTPS Commu- Entering "https://" in [Addr Added the On/Off setting for page. (Default : On)</http> |
| (4.50.38) Feb., '21 | С | | | | x | - | _ | Added the following note to [Advanced] tab. - When "HTTPS" is selecte limited to 16Mbps. |
| | | | | x | | - | _ | Corrected the RTSP protoc |
| | | | | x | | The camera does not issue a terminal alarm. | After the camera issues a terminal alarm, and the user turns off the terminal alarm during the time set in [Alarm deactivation time]. | · · · · · |
| | | | | x | | The camera may reboot. (Occurrence frequency: Rare) | While performing JPEG recording. | Fixed. |
| | | | | x | | The camera may fail to load preset position when booted. (Occurrence frequency: Rare) | When using the ONVIF® commend "GetPresets" to obtain preset position. | Fixed. |
| | | | | x | | The camera does not display the full-width left parenthesis "(" on the live image. | _ | Fixed. |
| | | | | x | | - | _ | Corrected a typographical e Note: "Lost object search" i track] ->[Auto track setting]. |

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he CGI command "/cgi-bin/get_io2" by adding VMD

g of [Transmission priority] to "VBR" when the browser's

g of [Network Settings] in [Setup]-> [Network] page-> \dvanced)" to "DHCP".

or the Secure Real-time Transport Protocol (SRTP) tab in [Setup]-> [Network] page.

notification] function as follows:

ication

her "Digest" or "Basic" authentication according to the erver when initially accessed without ID and password.

failure in HTTP server user authentication

otification> authentication error" in the system log when

unication *except WV-X6531NH

ress] enables HTTPS communication.

or ONVIF® to the [Network] tab in [Setup]-> [Network]

the "HTTPS" window in [Setup]-> [Network] page->

ed for "Connection", the maximum bandwidth(bit rate) is

col for transmitting H.265 images using ONVIF®.

error in German from "Oibjektsuche" to "Objektsuche". in [Image/Audio] page-> [Image/Position] tab->[Auto l.

| VER (ActiveX VER) Release Date | Pr | iority Leve | | C | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | date) | Contents | *: ONVIF is a trademark of Onvif, Inc. |
|--------------------------------------|-----------|------------------|---|---|---|---------------------|--|---|
| | | A B | С | υ | Issue (Phenomenon) | | Occurrence condition | Correspondence |
| Ver4.60 (4.50.38) Feb., '21 | С | | x | | UDP communication may be disconnected depending on the network environment. (Occurrence frequency: Rare) | When t images | transmitting high resolution or high bit rate s. | Fixed. |
| 100., 21 | | | | х | - | | - | Enhanced security. |
| | | | | | Except Chinese market model, WV-X6531NH. | | | |
| | | | | x | _ | | | Enabled both digital certificates "Digicert" and "GlobalSign". Note: Firmware upgrade does not change the certificate in a camera. |
| | | | | | | | | Click here for further information in case of SSL communication. |
| Ver4.70 | | | | x | - | | - | Enhanced security. |
| (4.50.38) Mar., '21 Corrected: | B Apri | x . 2021 | | | The camera <mark>may</mark> reboot when connected to WV- ASM300. (Occurrence frequency: High) | | the camera repeatedly receives the requests and stop transmission from WV-ASM300 at nterval. | Fixed. |
| | | | x | | The camera reboots when connected to a recorder. (Occurrence frequency: Rare) | - [Maxi - The re | both of below conditions: mum shutter] is set to "Max.2/30s" ecorder is performing sequence display n using both main monitor and sub monitor | Fixed. |
| | | | | x | - | | - | Added the following actions for SD memory card error: - Displays the following alert when a bit rate higher than "6144kbps" is selected in [Max bit rate (per client)*]: "Since the value of "Max bit rate (per client)" of H.265/H.264 recording stream set for "Recording format" is larger than "6144kbps", there is a possibility an abnormality will occur in continuity of recorded video. It is recommended to set it to "6144kbps" or less." - Records SD memory card logs on the [Status] tab in the [Maintenance] page, in the case of loss of recording or abnormal response from an SD memory card - Sends Panasonic alarm protocol "Diag." to the destination servers designated in the [Notification] tab of the [Alarm] page, in the case of abnormal response from an SD memory card |
| Ver4.80 (4.50.38) July, '21 | С | | | x | - | | _ | Added the "Download" function to "Viewer software (nwcv4Ssetup.exe)" in the [Basic] tab of the "Basic" page. |
| , | | | | x | - | | - | Increased the maximum password length from 32 to 128 characters for "Authentication" in the [Network] page-> [Advanced] tab-> "SMTP(E-mail)". |
| | | | x | | - | | - | Corrected the camera response to the CGI command "cgi-bin/setdata". |
| | | | x | | The camera may show a black image. (Occurrence frequency: Rare) | When the capture | the setting in [Image capture size] or [Image e mode] is changed repeatedly. | Fixed. |
| | | | x | | _ | | - | Corrected the camera response to the "GetVideoEncoderConfigurationOptions" command of ONVIF Profile S. |
| | | | x | | Unable to upgrade firmware. (Occurrence frequency: Rare) | When f failure | failing to upgrade firmware due to a power | Fixed. |

This document describes software package upgrade for WV-X6531N(S)/X6511N.

1. Release version: 5.09

2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | | | ity F .eve | | k | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | ate) | Contents | |
|--------------------------------------|--|---|---|---|--------|---|------|----------------------|--|
| | | Α | В | С | U | Issue (Phenomenon) | | Occurrence condition | |
| Ver4.80 (4.50.38) July, '21 | /er4.80 I.50.38) C x Unable to issue i-VMD alarm. (Occurrence frequency: High) | | - i-VM - Repe 1. Mo positio enable 2. Mo | satisfying the following conditions: D schedule is configured eat the following steps 11 or more times: we the direction of the camera to the preset on where i-VMD is configured while i-VMD is ed on the schedule we the direction of the camera to the other t position when i-VMD is not enabled on the ule | Fixed. | | | | |
| | | | | | x | | | | Added Link Layer Discovery the [Network] page. |
| | | | | | x | | | | Added a CGI command to tr Without NAL: "cgi-bin/setdat With NAL (default): "cgi-bin/ |
| | | | | | | Except Chinese market model, WV-X6531NH. | | | |
| | | | | | x | - | | - | Supports TLS 1.3. TLS setting has been added [Network] page. |
| | | | | | x | | | | Added the following note un tab in the [Image/Audio] pag |
| Ver4.91 | | | | | ^ | | | | "When "On" is selected, stre "Off" is selected, streams wi |
| (4.50.38) Dec., '21 | В | | | | x | | | | Added the "Set PC time to th [Basic] tab. |
| | | | | | x | - | | - | Added supported browser in Software and the CGI comm |
| | | | | | х | - | | - | Changed the alarm name fro alarm notification". |
| | | | | | x | - | | - | Added Subject Alternative N creating an HTTPS server co |
| | | | | | x | - | | - | Added "NTP test" function to [Network] page. |
| | | | | | x | - | | - | Improved the visibility of can - Removed unnecessary title - Switched the position of "N |

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ry Protocol (LLDP) setting tab to the [Advanced] tab on

transmit H.265/H.264 stream without NAL unit. lata?H264NONALFLG=1" n/setdata?H264NONALFLG=0"

ed to the "HTTPS" window on the [Advanced] tab in the

under the on/off setting of "Internet mode" on the [Image] age:

treams will be transmitted using the HTTP port. When will be transmitted using the UDP port."

the camera" checkbox to the "Date/time" field on the

information to the camera response to IP Setting mand "getinfo".

from "Panasonic alarm protocol notification" to "TCP

Name (SAN) to the certificate signing request (CSR) for certificate.

to the "NTP" window on the [Advanced] tab in the

amera setting screen as follows: itles "Next" and "Back" button

This document describes software package upgrade for WV-X6531N(S)/X6511N. 1. Release version: 5.09 2. Release Note Reference Number: X6531_036

| VER (ActiveX VER) Release Date | Pr | | ity F eve | | k | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | | Contents | | |
|--------------------------------------|----|---|--------------|---|---|---|-----------------------------|---|---|--|
| | | Α | в | С | U | Issue (Phenomenon) | | Occurrence condition | | |
| | | | | x | | Onable to perform multicast transmission. | setting - "DHC the[Ne | the camera is started with the following js: CP" is selected for "Network Settings" on etwork] tab of the [Network] page icast" is selected for [Transmission type] | Fixed. | |
| | | | x | | | Recording loss of some frames may occur in SD memory card recording after receiving an alarm. (Occurrence frequency: High) | When | post recording is enabled on the camera. | Fixed. | |
| | | | | | x | - | | - | Improved the accuracy of tim | |
| | | | x | | | (Occurrrence frequency: High) | - Enab record | HTTP port number on the recorder is larger | Fixed. | |
| | | | | x | | The camera may get stuck in the log deleting status. (Occurrence frequency: Rare) | When | deleting logs on the log list. | Fixed. | |
| Ver4.91 (4.50.38) Dec., '21 | В | | | x | | Unable to configure OSD settings using the ONVIF command "SetOSD() tt:OSDConfiguration Token" | | - | Fixed. | |
| , | | | | x | | Firmware upgrade may fail. (Occurrence frequency: Rare) | When NX100 | upgrading the camera(s) connected to WJ-). | Fixed. | |
| | | | | | x | - | | - | Adjusted the Mic input volum be equivalent to Internet Exp | |
| | | | | x | | Long press on [Manual zoom adjustment] button or [Brightness adjustment] button incorrectly starts text input mode on the button. (Occurrence frequency: High) | On the device | • | Fixed. | |
| | | | | | x | - | | - | Changed the default setting of card] tab in the [Basic] page. | |
| | | | | | | Except Chinese market model, WV-X6531NH. | | | 1 | |
| | | | | | x | _ | | - | Modified the French descript below: 1. Camera control - From "Com. cam. Vid" to "C 2. Live only - From "En dir.sl" to "Flux dire | |

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| Correspondence |
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| ime synchronization with NTP server. |
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| |
| ume on Google Chrome, Microsoft Edge, and Firefox to |
| xplorer. |
| |
| |
| |
| g of [Overwrite] from "Off" to "On" on the [SD memory e. |
| |
| ption on the [User. Auth] tab and [Host auth.] tab as |
| |
| "Contrôle camera" |

direct"

| VER (ActiveX VER) Release Date | Pr | iority Lev | | ank | | Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing U: Function /Performance improvement (Not Necessary to update) | ate) | *: ONVIF is a trademark of Onvif, Inc. | | | |
|--------------------------------------|---|---------------|---|--------------------|----------------------|---|--|--|--|--|--|
| | A B C U | | U | Issue (Phenomenon) | Occurrence condition | Correspondence | | | | | |
| Ver5.00 (4.60.30) Apr., '22 | U | | | | x | - | - | Changed company name from "Panasonic i-PRO Sensing Solutions Co., Ltd." to "i- PRO Co., Ltd." Updated SNMP extended MIB: Changed the extended Object ID(OID) from Panasonic(258) to i-PRO(57501). Note: - This change applies only to the products manufactured in April, 2022* or later, | | | |
| | | | | | x - | - | and is not applied by firmware upgrade. *Serial number: VDxxxxx - MIB file and manual are available at the following link: <u>https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib</u> | | | | |
| | | | | | x | _ | _ | Supports the notification of i-VMD detection area ID as follows: - Added the [i-VMD alarm area information] on/off setting to the [TCP alarm notification] window on the [Notification] tab. | | | |
| Ver5.01 (4.60.30) | U | | | | | | | - Improved the response to the CGI command "/cgi-bin/get_io2" by adding the detection area ID. | | | |
| Aug., '22 | | | | | x | _ | - | Removed the [SD memory card images] acquisition function for Internet Explorer (IE) on the [SD memory card] tab, according to the Internet Explorer (IE) end of support. | | | |
| | | | | | x | _ | - | Enhanced security. | | | |
| Ver5.02 (4.60.30) Oct., '22 | U | | | : | x | _ | - | Changed the company name in the GlobalSign digital certificate installed on the camera to "i-PRO Co., Ltd." | | | |
| Ver5.05 | | | | | x | - | - | Changed company name in the plug-in (ActiveX) software to "i-PRO Co., Ltd." | | | |
| (4.60.30) Jan. '23 | С | | : | × | 5 | HTTPS connection is not available until the [Connection] setting is once switched from "HTTP" to "HTTPS", on the HTTPS setting page in the [Advanced] window. | - | Fixed. | | | |
| Ver5.08 (4.60.30) Nov. '23 | U | | | : | x | - | - | Improved the productivity at production line. | | | |
| Ver5.09 (4.60.30) Mar. '24 |) C X The image might become blurry. zooming Fixed. | | | | | | | | | | |
| 1. The face de | nportant notes for users of Chinese market models only: The face detection function does not work when the frame rate is set to 25fps or 50fps. Stabilizer does not work when the frame rate is set to 60 fps, 50 fps, or 25 fps. | | | | | | | | | | |