This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version： Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

::: i-PRO

WV-SBV131M/SBV111M Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level				Contents
	Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing				*: ONVIF is a trademark of Onvif, Inc.
	A	B	C	U	

VER (ActiveX Ver) Release Date	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver1.93 Ver1.92 (4.37.04) (4.38.07) Dec.,'15	-				First production.		
Ver1.94 (4.37.04) Feb.,'16	U			x	-	-	Supported upgrading firmware by ONVIF® command.

Ver2.40
(4.38.08)
Apr.,'16
	C			x	-	-	1. Changed factory default setting value at User Authentication from "OFF" to "ON".
							2. Deleted pre-registered User name (admin), and Password (12345).
							3. All users must register User name(s) and Password(s) at initial access.
							  - User name: 1 to 32 characters
							  - Password; 8 to 32 characters, two or more types of characters among alphabets, numbers and symbols.
							 Note:
							Currently registered User name(s) and Password(s) will NOT be deleted by upgrading firmware, however, you have to register them under the new policy (above "3") after initializing (default reset) by the INITIAL SET button or by the setup menu.

Ver2.40 (4.38.08) Apr.,'16	C		x		It may not be able to startup. （Occurrence frequency : Rare）	-	Fixed.
Ver2.50 (4.39.00) July,'16	C			x	-	-	Added choices of "Bandwidth control(bit rate)". 1024kbps/15360kbps/20480kbps/25600kbps/30720kbps/35840kbps/40960kbps/51200kbps
				x	-	-	Added choices of "On(Mid)" and "On(High)" to "Smart Coding mode".
				x	-	-	OnVIF: Supported "WS Addressing".
				x	-	-	Added information about place of product destination and model number with suffix to the reply of CGI command "/cgi-bin/getinfo".
				x	-	-	Updated hyperlink to the web sites of support.
			x		Layout of image display may be collapsed.	By inputting "</script>" at input-field.	Fixed.

			x		-	-	Corrected the vulnerability by upgrading OSS for NTP;
							  [Prev.] ntp-4.2.6 p3
							  [New] ntp-4.2.8 p7

			x		Confirmation window would not appear even if "Bandwidth control(bit rate)" to be set less than "Max bit rate (per client)".	When attempting to set "Bandwidth control(bit rate)" to be set less than "Max bit rate (per client)" on "H.264(2)" through "H.264(4)".	Fixed.
			x		The camera may restart, unexpectedly.	In a case, connect/disconnect H.264 streaming , repeatedly.	Fixed.

∷∷i-PRO

This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version： Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

WV-SBV131M/SBV111M Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
	Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing					**Contents** *: ONVIF is a trademark of Onvif, Inc.		
Ver2.52 (4.39.00) Dec.,'16	C				x	Replied to the "SetVideoSourceMode" command (ONVIF).	-	Fixed.
					x	The Real-time Pull-Point Notification Interface did not conform to ONVIF®.	-	Fixed.
				x		-	-	Improved security.
Added on May 15,2017 Ver2.54 (4.39.00) Mar.,'17	C				x	Unable to work time adjustment function synchronizing with NTP server.	When the difference between the clock and the NTP server is within 5 seconds.	Fixed.
				x		Streaming in RTSP for the network disk recorder, Model WJ-NX400, may stop.	In case of operating continuously.	Fixed.
Added on June 5,2017						Refresh interval may be switched to "8s", unexpectedly.	By changing "Transmission priority" of H.264 for the options other than "VBR", initiated by PSSCT or WJ-NV300 only if it is the first time from the installation of the camera.	Fixed.
Ver2.56 (4.39.23) Oct.,'17	U				x	-	-	Changed company name to the new company name in the plug-in (ActiveX) software.
					x	-	-	Updated the URL of support website displayed on screen.
Ver2.58 (4.39.23) Mar.,'18	C				x	-	-	Improved security.
					x	-	-	In CGI command of "get_io2", added new parameter "3" for "format" so that possible to obtain Command alarm / i-VMD information.
					x	-	-	Added new Panasonic alarm notifications as follow; SD-MEMORY WRITE ERROR SD-MEMORY READ ERROR SD-MEMORY DELETE ERROR SD-MEMORY FILESYSTEM ERROR SD-MEMORY OTHER ERROR
					x	-	-	Discarded a restriction that only "Unicast port (AUTO)" in RTSP transmission would be available when "Transmission type" is "On".
				x		Leaked POST connection.	in a case of disconnect network in "over HTTP" for 2 and half minutes or more.	Fixed.
				x		Image capture size may become incorrect.	By setting Image capture size from Image Viewer.	Fixed.
					x	Administrator password may be deleted.	-	Fixed.
Ver2.60 (4.39.23) Jun.,'18	C				x	-	-	Changed factory default setting for Authentication method; Previous: "Digest or Basic" New: "Digest"
							For more details:	security upgrade June2018.pdf

This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version： Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

WV-SBV131M/SBV111M Firmware Release Note

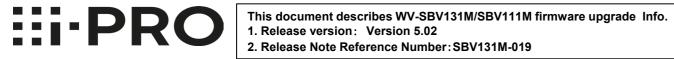| VER (ActiveX Ver) Release Date	Priority Rank Level				Contents		
	Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing						*: ONVIF is a trademark of Onvif, Inc.
	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver2.60 (4.39.23) Jun.,'18	C			x	-	-	Changed password policy that it must include at least 3 types of characters among "upper case letters / lower case letters / numbers / symbols". For more details, click here. Note: Original passwords and authentication method of products on the system are kept unchanged even firmware and software have been updated. For more details: security_upgrade_June2018.pdf
				x	-	-	Added user authentication at host authentication.
				x	-	-	Became saving history of login failure into system log.
				x	-	-	Changed saving setting data with encryption. Note: unable to restore the setting data if you would downgrade the firmware.
				x	-	-	Made some other security measures enhanced.
				x	-	-	Added "Drawing method", "Decoding options" and "Frame Skip Options (When PC is Heavy Processing Load)" onto plug-in software.
				x	-	-	Changed factory default setting for transmission rate: Previous: Unlimited New: 51200kbps
			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.
Ver2.70 (4.39.23) Sept.,'18	C			x		Frame rate may drop.	By transmitting JPEG live images continuously over 1 year without being rebooted.	Fixed.
Ver4.00 (4.39.23) Feb.,'19	C			x		May not be able to change the save destination at the time of FTP periodical transmission error.	-	Fixed.
				x		ONVIF RTSP Multicast transmission may not work.	-	Fixed.
				x	-		Improved to link HTTP alarm function with "HTTP max segment size" setting in "Network setting"
				x	-		ONVIF: Supported DTT v18.06.
				x	-	-	Enhanced security.
				x	-	-	Changed the URLs of hype-link destination according to change of support page URL (from "http" to "https").
			x		The recorded data of the log one before the relevant time might be downloaded when downloading the recorded data from the log list.	-	Fixed.
			x		Camera may restart unexpectedly while receiving ONVIF command continuously.	-	Fixed.

This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version：　Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

WV-SBV131M/SBV111M Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level					Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing	Contents	
								*: ONVIF is a trademark of Onvif, Inc.
		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver4.00 (4.39.23) Feb.,'19	C				x	-		Changed the responce of "/cgi-bin/get_io2?format=3&"; It became not to notify CGI response each time even if detecting command alarm continuously.
				x		Camera may restart when a file which cannot be deleted were created during JPEG overwrite recording on the SD memory card.	-	Fixed.
				x		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.
				x		Communication error may occur while connecting with WJ-NX series recorders. (Occurrence frequency: Rare)		Fixed.
				x		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).	If those were changed within 2 minutes after the network had been disconnected with over RTSP connection.	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		Camera may reboot, unexpectedly.	When sequencing the network disk recorder or the video management software (WV-ASM series)	Fixed.
				x			By downloading the SD memory backed up data with the network disk recorder	Fixed.
Ver4.10 (4.39.23) June,'19	C				x	-	-	Security has been enhanced.
					x	Audio may not output by attempting to connect two sessions simultaneously and failure to authenticate one of them.	-	Fixed.
					x	-	-	Added an ONVIF command, "DeviceIO:GetVideoSources".
					x	-	-	Added a note in the window of DDNS setting page when using "Dynamic DNS Update", "Dynamic DNS Update(DHCP)".
					x	-	-	Display the license of open source software (OSS) on upgrade screen.
				x		ONVIF communication may become a cause of destroying resources.		Fixed.
				x		-	-	Fixed Session Description Protocol/SDP (IPv6) on ONVIF.
				x		Unable to find ONVIF search.	-	Fixed.
					x	-	-	The file may not be found by opening the log list during overwrite recording of the SD memory card and attempt to browse.

This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version： Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

WV-SBV131M/SBV111M Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver4.30 (4.39.24) May,'20	C			x		The camera may show a black image on the "Live" page.	-	Fixed.
					x	-	-	Improved the response when reconnecting in HTTPS connection on Windows 10.
					x	-	-	Changed the company name in the plug-in software Active X to the new one.
Ver4.70 (4.39.24) Mar.,'21	U				x	-	-	Improved the [HTTP alarm notification] function as follows: 1. Supports Digest authentication - The camera performs either "Digest" or "Basic" authentication according to the response from the HTTP server when initially accessed without ID and password. 2. Adds an error log for the failure in HTTP server user authentication - Displays "<HTTP alarm notification> authentication error" in the system log when the authentication fails. 3. Supports HTTPS Communication - Entering "https://" in [Address] enables HTTPS communication.
					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.
					x	-	Modified on Oct. 14, 2021	Changed the behavior related to bit rate when the communication protocol is changed from "HTTP" to "HTTPS" as below. ~~Previous versions: the camera automatically sets the bit rate to 4 Mbps when the selected one is larger than 4 Mbps.~~ ~~This version or later: the camera does not change the bit rate.~~ Previous versions: - The camera automatically sets [Max bit rate (per client)*] to 4096kbps when the selected one is larger than 4096kbps. This version or later: - The camera does not change the value in [Max bit rate (per client)*]. - The following note has been added to the "Connection" field in [Setup]-> [Network] page-> [Advanced] tab-> "HTTPS" window. When "HTTPS" is selected for "Connection", the maximum bandwidth(bit rate) is limited to 16Mbps.
Ver4.80 (4.39.24) June,'21	C				x	-	-	Enhanced security.
				x		The camera may show a black image. (Occurrence frequency: Rare)	When the setting in [Image capture size] or [Image capture mode] is changed repeatedly.	Fixed.

Priority Rank Level
A: Recommend to apply (Major or serious update)
B: When issue happened
C: Maintenance timing

*: ONVIF is a trademark of Onvif, Inc.

This document describes WV-SBV131M/SBV111M firmware upgrade Info.
1. Release version： Version 5.02
2. Release Note Reference Number：SBV131M-019

March 1, 2023
i-PRO Co., Ltd.

WV-SBV131M/SBV111M Firmware Release Note

VER (ActiveX Ver) Release Date	Priority Rank Level				Contents		
	Priority Rank Level A: Recommend to apply (Major or serious update) B: When issue happened C: Maintenance timing						*: ONVIF is a trademark of Onvif, Inc.
	A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence
Ver5.00 (4.39.25) Apr.,'22	U				x	-	-	Changed company name from "Panasonic i-PRO Sensing Solutions Co., Ltd." to "i-PRO Co., Ltd."
					x	-	-	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, and is not applied by firmware upgrade. *Serial number: VDxxxxxx - MIB file and manual are available at the following link: https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib
					x	-	-	Changed the alarm name from "Panasonic alarm protocol notification" to "TCP alarm notification".
Ver5.01 (4.39.25) Oct.,'22	U				x	-	-	Changed the company name in the GlobalSign digital certificate installed on the camera to "i-PRO Co., Ltd."
Ver5.02 (4.39.25) Mar.,'23	U				x	-	-	Changed company name in the plug-in (ActiveX) software to "i-PRO Co.,Ltd."

SBV131M-019