



This document describes WV-S1536L(N)/ WV-S2536L(N) firmware upgrade info.
1. Release version: Version 2.20
2. Release Note Reference Number: WV-S1536L-008

September 30 2022
i-PRO Co., Ltd.

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		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence	
1.11 Sept., '21						1st mass-production.			
1.20 Sept., '21		C				x	-	-	Added SDK version to the [Software mng.] tab in the [Ext. software] page as below: - Displays SDK version of the camera in "SDK version" under "Unique information" - Displays SDK version of the extension software in "Software version" of each extension software information
						x	-	-	Added the following actions for SD memory card error: - Displays the following alert when a bit rate higher than "8192kbp" 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 "8192kbps", there is a possibility an abnormality will occur in continuity of recorded video. It is recommended to set it to "8192kbps" 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
						x	-	-	Increased the maximum password length from 32 to 128 characters for "Authentication" in the [Network] page-> [Advanced] tab-> "SMTP(E-mail)".
						x	-	-	Updated the pre-installed extension software WV-XAE200 (AI-VMD) to the latest version 2.11. Note: Upgrading camera to version 1.20 or later does not update the installed WV-XAE200. To use WV-XAE200 in version 2.11, manually update the WV-XAE200 to version 2.11 or initialize the camera using "INITIAL SET" button after firmware upgrade.
						x	-	-	Improved the detection accuracy of scene change detection (SCD).
						x	-	-	Improved the auto focus performance when switching from color mode to black & white mode.
						x	-	-	Improved the image quality as follows: - Color reproduction accuracy and gradation adjustment when [Super Dynamic(SD)] is "On" - The performance of [White balance] function - The image resolution after digital zoom adjustment
							x	-	Corrected the camera response to the "GetVideoEncoderConfigurationOptions" command of ONVIF Profile S.

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		A	B	C	U	Issue (Phenomenon)	Occurrence condition	Correspondence				
1.20 Sept., '21		C			x		i-PRO Configuration Tool (iCT) may not display a correct value in "Continuous operation" of the [Status of Cameras] screen.	Within 14 hours after starting the camera.	Fixed.			
					x		The camera may restart. (Occurrence frequency: Rare)	When the following two events occur at the same time: - Issue an alarm notification of WV-XAE200 (AI-VMD) - Image transmission stops such as when moving to the [Setup] screen	Fixed.			
1.21 Sept., '21		B			x		Firmware upgrade may fail. (Occurrence frequency: Rare)	When upgrading the camera(s) connected to WJ-NX100.	Fixed.			
				x			Image transmission stops. (Occurrence frequency: High)	When the camera receives the CGI command to set Internet mode to "On".	Fixed.			
	1.21 Nov., '21						1st mass-production (WV-S1536LTN and WV-S2536LTN)					
1.31 Nov., '21	1.31 Nov., '21	U				x	-	-	Added Link Layer Discovery Protocol (LLDP) setting tab to the [Advanced] tab on the [Network] page.			
						x	-	-	Supports the following extension software free of charge: - WV-XAE203 (AI Non-Mask Detection) - WV-XAE207 (AI Occupancy Detection) Note: Registration key is not required after upgrading to this version.			
						x	-	-	Changed not to install extension software by firmware upgrade as below: - Previous versions : Installs AI-VMD and AI Privacy Guard by firmware upgrade when no extension software is installed on the camera - This version or later : Does not install any extension software by firmware upgrade Note: Pre-installed extension software at factory on this version or later is AI-VMD and AI People Detection.			
						x	-	-	Added a CGI command to transmit H.265/H.264 stream without NAL unit. Without NAL: "cgi-bin/setdata?H264NONALFLG=1" With NAL (default): "cgi-bin/setdata?H264NONALFLG=0"			

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1.31 Nov., '21	1.31 Nov., '21	U				x	-	-	Added "RAM capacity extension mode" to "Unique information" in the [Software mng.] tab of the [Ext. software] page. When set to "On": RAM capaciry becomes 150MB When set to "Off": RAM capacity is 100MB Default: Off Note: Recording on SD memory card is unavailable when "RAM capacity extension mode" is set to "On".	
1.40 Dec., 21	1.40 Dec., 21	B				x	-	-	Supports SSH File Transfer Protocol (SFTP) for image transmission. SFTP setting has been added to the [Setup] page.	
						x	-	-	Supports Message Queueing Telemetry Transport (MQTT) for alarm notification. MQTT setting has been added to the [Advanced] tab on the [Network] page.	
						x	-	-	Supports TLS 1.3. TLS setting has been added to the "HTTPS" window on the [Advanced] tab in the [Network] page.	
						x	-	-	Added supported browser information to the camera response to IP Setting Software and the CGI command "getinfo".	
						x	-	-	Changed the alarm name from "Panasonic alarm protocol notification" to "TCP alarm notification".	
						x	-	-	Added Subject Alternative Name (SAN) to the certificate signing request (CSR) for creating an HTTPS server certificate.	
						x	-	-	Added "NTP test" function to the "NTP" window on the [Advanced] tab in the [Network] page.	
						x	-	-	Improved the visibility of camera setting screen as follows: - Removed unnecessary titles - Switched the position of "Next" and "Back" button	
						x	-	-	Improved to enable image recording on an SD memory card even when "Ext. software mode" is set to "On" on the [SD memory card] tab.	
					x		Unable to perform multicast transmission. (Occurrence frequency: Rare)	When the camera is started with the following settings: - "DHCP" is selected for "Network Settings" on the[Network] tab of the [Network] page - "Multicast" is selected for [Transmission type]	Fixed.	
			x	-	-	Improved the accuracy of time synchronization with NTP server.				
			x	-	-	Improved the camera response to the ONVIF command "CreateAnalyticsModules" when the name of installed extension software includes slash (/).				

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1.40 Dec., 21	1.40 Dec., 21	B			X	-	-	Improved the behavior when unsupported extension software "AI-VMD/AI People Counting for 360-degree fisheye" or "AI Privacy Guard for 360-degree fisheye" is installed on the camera as below: 1. Displays "Unsupported software" with software version on the [Ext. software] tab 2. Disables the setting window, registration of Registration Key, and operating schedule setting.
				X		The ONVIF command "CreateRules" does not work. (Occurrence frequency: High)	When the [Image rotation] setting is changed after configuring extension software settings using "CreateRules" command.	Fixed.
					X	-	-	Adjusted the Mic input volume on Google Chrome, Microsoft Edge, and Firefox to be equivalent to Internet Explorer.
				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 setup menu of "/tab" window for tablet device.	Fixed.
					X	-	-	Changed the default setting of [Overwrite] from "Off" to "On" on the [SD memory card] tab in the [Basic] page.
					X	-	-	Supports full frame rate streaming and audio output on version 92 or later of Google Chrome or Microsoft Edge browser.
					X	-	-	Modified the French description on the [User. Auth] tab and [Host auth.] tab as below: 1. Camera control - From "Com. cam. Vid" to "Contrôle camera" 2. Live only - From "En dir.sl" to "Flux direct"
				X		The camera temporarily stops image streaming even when there is no change in [Image capture mode]. (Occurrence frequency: High)	When the camera receives the CGI command "/cgi-bin/set_imgmode" for changing the image capture mode.	Fixed.
1.40 Dec., 21	1.40 Dec., 21	B			X	The "Display style" setting of OSD unexpectedly changes to "Opaque". (Occurrence frequency: High)	When the camera receives the unsupported CGI command "/cgi-bin/set_camfunc".	Fixed.

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1.40 Dec., 21	1.40 Dec., 21	B		x		Out-of-focus may occur after performing auto-focus.	When performing auto focus under all of the following conditions: - [Super Dynamic(SD)] set to "On" - Ambient illuminance is low - Point light source is captured on the image - Outdoor shooting with deep depth of field	Fixed.	
					x	-	-	Improved to manage multiple alarms of AI Occupancy Detection (WV-XAE207) by detection area. This enables alarm detection in Area 2 soon after the alarm detection in Area 1. Note: Version 1.20 or later of WV-XAE207 (AI Occupancy Detection) is required.	
1.41 Jan., '22	1.41 Jan., '22	B			x	-	-	Supports Genetec Stratocast™.	
				x		The images just before a power off are not played back from an SD memory card properly. (Occurrence frequency: High)	When the camera is powered off under both of the following conditions: - The camera is recording images on an SD memory card in mp4 format - [RAM capacity expansion mode] is set to Off on the [Software mng.] page	Fixed.	
2.00 Apr., '22	2.00 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	
2.10 Aug., '22	2.10 Aug., '22	B			x	-	-	Changed the color of AI-VMD detection frame at alarm occurrence from blue to red, for the ONVIF connection with Milestone.	
					x	-	-	Improved to display the image transmission log on the [Status] tab in the [Maintenance] page. Clicking the "Confirm" button of [Image transmission log] displays logs on a separate window.	

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2.10 Aug., '22	2.10 Aug., '22	B						Supports the notification of AI-VMD detection area ID as follows: - Added the [AI-VMD alarm area information] on/off setting to the [TCP alarm notification] window on the [Notification] tab. - Improved the response to the CGI command "/cgi-bin/get_io2" by adding the detection area ID.	
								Added the note "Use the latest edition of the software product." to the [Upgrade] tab in the [Maintenance] page and [Software mng.] tab in the [Ext. software] page.	
								Improved to notify the user of the lack of RAM capacity by displaying the following message in [Remaining RAM] on the [Software mng.] tab. Displayed message: Please uninstall the extension software or turn on the RAM capacity expansion mode.	
								Supports new Graphical User Interface (GUI) for the camera window. For details, refer to "New functions and addendum (New GUI) " (Control number: 0324) at the following URL for details: https://i-pro.com/global/en/surveillance/training-support/support/technical-information	
								Improved the human detection performance for extension software. Note: Extension software needs to be updated to the version released in July, 2022 or later.	
						AI Privacy Guard (WV-XAE201W) remains enabled even after [Privacy Guard target] is set to 'Off'. (Occurrence frequency: High)	When [Target stream] is set to "Stream (1)", "Stream (2)", "Stream (3)", "Stream (4)" or "Stream (2) & Stream (4)".	Fixed.	
						The 3rd party application on the camera may restart.	-	Fixed.	
						Unable to perform JPEG image transmission.	When transmitting AI-VMD (WV-XAE200) additional information with the video data.	Fixed.	
						-	-	Enhanced security.	
						-	-	Improved the image quality.	
						-	-	Improved the connectivity with Genetec server.	



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2.20 Sept., '22	2.20 Sept., '22	C			x	-	-	Changed the company name in the GlobalSign digital certificate installed on the camera to "i-PRO Co., Ltd."
					x	-	-	Supports the FTP function.
				x		The occupancy detection area information is not included in the HTTP alarm notification from the camera.	-	Fixed.
				x		The frame rate and bit rate may not recover once they drop due to the environmental cause.		Fixed.