



This document describes WV-S2136G etc. firmware upgrade info.  
 1. Release version: Version 2.20  
 2. Release Note Reference Number: WV-S2136G-005

Updated: November 11, 2022  
 Issued: September 30, 2022  
 i-PRO Co., Ltd.

**WV-S2136G/S2136LG/S2236LG/S2536LG(N)/S2236L-B/S2236LG-B/S2136LG-B/S2136G-B/S2136L-B/S2136-B/S1536LN-B/S1536L-B/S1536LNS**  
**- Firmware Release Note**

S2136(L)G S2236LG S2536LG(N) S2236L(G)-B S2136(L)G-B S2136(L)-B S1536L(N)-B	S1536LNS	Priority Rank Level				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				
		A	B	C	U		Issue (Phenomenon)	Occurrence condition	Correspondence		
1.30 Jan., '22									1st mass-production.		
1.31 Jan., '22		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"		
1.40 Jan., '22		B				x	-	-	Added "RAM capacity extension mode" to "Unique information" in the [Software mng.] tab of the [Ext. software] page. When set to "On": RAM capacity 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".		
						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".					

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1.40 Jan., '22		B				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 (/).
						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.			

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1.40 Jan., '22	/	B				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.
					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.
				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.
1.41 Jan., '22	/	B				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.
				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.

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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: <a href="https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib">https://i-pro.com/global/en/surveillance/database/i-pro-device-integration/snmp-mib</a>
	2.00 Sept., '22	-					1st mass-production.		
2.10 Aug., '22	2.10 Sept., '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.
						X	-	-	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.
						X	-	-	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.
						X	-	-	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.
					X	-	-	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: <a href="https://i-pro.com/global/en/surveillance/training-support/support/technical-information">https://i-pro.com/global/en/surveillance/training-support/support/technical-information</a>	
					X	-	-	Improved the human detection performance for extension software. Note: Extension software needs to be updated to the version released in July, 2022 or later.	

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2.10 Aug., '22	2.10 Sept., '22	B			x		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.
					x		The 3rd party application on the camera may restart.	-	Fixed.
				x			Unable to perform JPEG image transmission.	When transmitting AI-VMD (WV-XAE200) additional information with the video data.	Fixed.
						x	-	-	Enhanced security.
						x	-	-	Improved the image quality.
						x	-	-	Improved the connectivity with Genetec server.
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	-	-	<b>Added on Nov.11, 2022</b> Added the HTML initialization function. [Load the default HTML files (setup menu).] and [Reset to the default and load the default HTML files.] have been added to the [Default reset] tab.
					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.