Panasonic

WV-S4556L

BUSINESS

Edge AI 360-degree fisheye camera that provides video surveillance without any blind spots and business intelligence.

5MP Sensor Outdoor 360 Fisheye Network Camera with AI engine

The new S-series fisheye camera is a new-generation camera equipped with an AI processor that realizes edge AI processing. With a high-performance fisheye lens and our own video compression technology, it is possible to clearly shoot 360 degrees in all directions up to the periphery of the screen with a single camera.

The camera is equipped with an AI processor, and contribute to solve various problems by installing an AI application according to the purpose.

It is possible to visualize the number of people and the congestion status with a dashboard that can be customized according to the customer's operation style, and use it for business intelligence purposes.

Key features

- The AI processor equipped with a camera realizes motion detection of people / vehicles, number counting, and congestion detection. It also supports third-party AI applications and can meet a variety of AI demands. The data aggregated inside the camera can be visualized on the dashboard in cooperation with our system, and can be used for marketing and business intelligence.
- Equipped with industry standard protocols such as ONVIF, it can be linked with third-party display software as an IoT terminal for sensor networks. Furthermore, it is possible to integrate and utilize it in another system customized according to the customer's operation.
- Equipped with a high-performance fisheye lens that has been well-established in the market, one camera can clearly shoot 360 ° in all directions up to the periphery of the screen.
- Our original smart coding compatible with H.264 and H.265 delivers high-resolution video at high image quality and low bit rate. Achieved useful images by combining with highly visible images by the intelligent auto (iA) function.

Key i-PRO Spec.

- 2192x2192 pixel fisheye images up to 30fps
- Intelligent Auto (with AI Engine)
- Super Dynamic 120dB
- Smart Coding (with AI Engine)
- IP66, IK10, 50J compliant, Anti-Condensation System
- Built-in IR LED
- Fiber Optic Media Converter Unit (Optional WV-S25F1)
- ONVIF® Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Retail / Bank
- Education / Hospital
- Building
- Transportation (Airport / Train, Subway station)
- Logistics





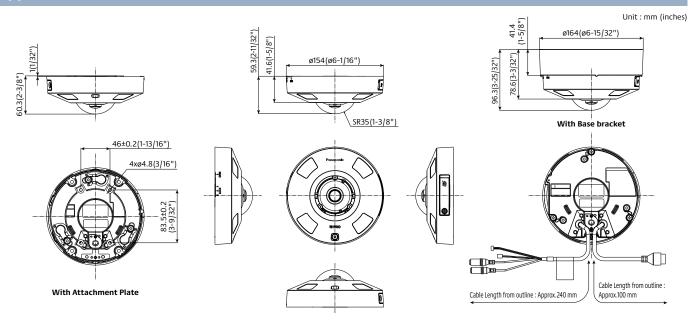


Specifications

Camera	Image Sensor	Approx. 1/3 type 5MP CMOS image sensor
	Minimum Illumination	Color: 0.15 lx, BW: 0.02 lx
		(F2.4, Maximum shutter : Off (1/30 s), AGC : 11)
		BW : 0 lx
		(F2.4, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)
		Color: 0.01 lx, BW: 0.0013 lx
		(F2.4, Maximum shutter: max. 16/30s, AGC: 11) *1
	Intelligent Auto	On / Off
	Maximum shutter	Max.16/30s to Max. 1/10000s
	Super Dynamic*2	On / Off, The level can be set in the range of 0 to 31.
	Dynamic Range	Max.120 dB (Super Dynamic : On, level : 31)
	Image Settings	Gain (AGC), White balance
	Image Compensation	Adaptive black stretch, Back light compensation (BLC), Fog compensation,
		High light compensation (HLC), Digital noise reduction
	Color/BW (ICR)	Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) /
		Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light	High* / Middle / Low / Off *Maximum irradiation distance : 10 m {Approx. 33 ft}
		(Mounting height : Approx. 3 m, Peripheral intensity control : On)
	Video Motion Detection (VMD)	On / Off, 4 areas available
	Scene Change Detection (SCD)	On / Off, 1 areas available
	Audio Detection	On / Off
	Al Applytics	Gunshot, Yell, Vehicle horn, Glass break
	Al Analytics	Yes
	Privacy Zone Camera Title (OSD)	On / Off, Up to 8 zones available On / Off, Up to 20 characters (alphanumeric characters, marks)
	Fixing angle adjustment	-5°, 0°, +5°
Lens	Zoom Ratio	1x
Lens	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	0.84 mm {1/32 inches}
	Maximum Aperture Ratio	1: 2.4
	Focus range	0.3 m {11-13/16 inches} - ∞
	Angular Field of view	Horizontal : 186° Vertical : 186°
DORI	Distance to the object	Detect (25 ppm / 8 ppf) : 20.7 m / 68.0 ft
	in the center of the image	Observe (62.5 ppm / 19 ppf) : 8.3 m / 27.2 ft
	,	Recognize (125 ppm / 38 ppf) : 4.1 m / 13.6 ft
		Identify (250 ppm / 76 ppf) : 2.1 m / 6.8 ft
	Coverage radius	Detect (25 ppm / 8 ppf) : 38.0 m / 124.6 ft
	when mounted at a height	Observe (62.5 ppm / 19 ppf) : 13.2 m / 43.3 ft
	of 3 m (10 ft)	Recognize (125 ppm / 38 ppf): 4.3 m / 14.1 ft
		Identify (250 ppm / 76 ppf) : —
Browser	Camera Control	Brightness, AUX On / Off
GUI	Audio	Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network		10Base-T / 100Base-TX, RJ45 connector
	Resolution <ceiling></ceiling>	•Fisheye mode (max. 30 fps/25 fps)
	<wall></wall>	2192×2192 1280×1280 640×640 320×320
		•Quad PTZ mode (max. 30 fps/25 fps), Single PTZ mode (max. 30 fps/25 fps)
		1600×1200 / 1280×960 / 800×600 / VGA / QVGA
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA •Double Panorama mode (max. 30 fps/25 fps)
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA •Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA **Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 *Fisheye + Double Panorama mode (max. 30 fps/25 fps)
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA *Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 *Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA -Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 -Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180
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	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA *Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 *Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 *Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA *Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 *Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 *Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×960 / 800×600 / VGA / QVGA
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		1600×1200 / 1280×960 / 800×600 / VGA / QVGA **Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 **Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 *Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×280 / 800×600 / VGA / QVGA **Quad Streams mode (Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Quad PTZ) 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps)
	<ceiling></ceiling>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA **Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 **Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 **Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×960 / 800×600 / VGA / QVGA **Quad streams mode (Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) **Panorama mode (max. 30 fps/25 fps) **Panorama mode (max. 30 fps/25 fps)
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	<wall></wall>	1600×1200 / 1280×960 / 800×600 / VGA / QVGA **Double Panorama mode (max. 30 fps/25 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 **Fisheye + Double Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Double Panorama) 1280×720 / 640×360 / 320×180 **Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Quad PTZ) 1280×960 / 800×600 / VGA / QVGA **Quad streams mode (Single PTZ (Quad streams)) 1280×960 / 800×600 / VGA / QVGA (max. 30 fps/25 fps) (Quad PTZ) 1600×1200 / 1280×960 / 800×600 / VGA / QVGA (max. 5 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 **Fisheye + Panorama mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 / 1280×1280 / 640×640 / 320×320 (Panorama) 1280×720 / 640×360 / 320×180
		1600×1200 1280×960 800×600 VGA QVGA QVGA QVGA Pobuble Panorama mode (max. 30 fps/25 fps) 1920×1080 1280×720 640×360 320×180 1280×292 640×360 320×320 (Fisheye) 2192×2192 1280×1280 640×640 320×320 (Double Panorama) 1280×720 640×360 320×180 Fisheye + Quad PTZ mode (max. 30 fps/25 fps) (Fisheye) 2192×2192 1280×1280 640×640 320×320 (Quad PTZ) 1280×960 800×600 VGA QVGA

Network	Smart Coding	GOP (Group of pictures) control :		
		On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off		
		*On (Frame rate control) and On (Advanced) are only available with H.265		
		Auto VIQS : On / Off		
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps, G.711: 64 kbps,		
		AAC-LC*4 : 64 kbps / 96 kbps / 128 kbps		
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMP v1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffSer		
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP/RTCP,		
		SMTP, DHCP, DNS, DDNS, NTP, SNMP v1/v2/v3, UPnP, IGMP, ICMP,		
		ARP, IEEE 802.1X, DiffServ, SRTP		
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)		
	SDXC/SDHC/SD	H.265 / H.264 recording :		
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC		
		JPEG recording : Manual REC / Alarm REC (Pre/Post)		
		Compatible SDXC/SDHC/SD card :		
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**,		
		256 GB**, 512 GB**model		
		*SDHC card, ** SDXC card (except miniSD card and microSD card)		
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals		
	ONVIF® Profile	G/M/S/T		
Alarm	Alarm Source	3 terminals input, VMD, Command alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,		
		HTTP alarm notification Indication on browser,		
		Panasonic alarm protocol output		
Input/	Audio Input	ø3.5 mm stereo mini jack, Recommended applicable microphone : Plug-in power ty		
Output		(Sensitivity of microphone : -48 dB ±3 dB (0 dB=1 V / Pa,1 kHz))		
		Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V		
	Audio Output*5	ø3.5 mm stereo mini jack (monaural output)		
		Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV		
	External I/O Terminals	ALARM IN 1 (Black & white input, Auto time adjustment) (x1),		
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)		
General	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1		
	EMC	FCC (Part15 ClassA), ICESO03 ClassA, EN55032 ClassB, EN55024, EN55035		
		ECE-R10, EN50498 compliant, EN50121		
	Power Source and	DC power supply : DC12 V 1.03 A, Approx. 12.4 W		
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 260 mA, Approx. 12.5 W (Class 0 devic		
	Ambient Operating	IR LED : On -40 °C to +50 °C (-40 °F to 122 °F)		
	Temperature	IR LED : Off -40 °C to +60 °C (-40 °F to 140 °F)		
	Ambient Operating Humidity	10% to 100 % (no condensation)		
	Anti-Condensation System	Rosahl element		
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant		
	Shock Resistance	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)		
	Wind Resistance	Up to 40 m/s {approx. 89 mph}		
	Railway Application	EN50155-TX		
	Dimensions	When using the attachment plate :		
		ø154 mm × 60.3 mm (H) {ø6-1/16 inches × 2-3/8 inches (H)}		
		Dome radius 35 mm {1-3/8 inches}		
		When using the base bracket: ø164 mm × 96.3 mm (H)		
		{ø6-15/32 inches × 3-25/32 inches (H)}		
		Dome radius 35 mm {1-3/8 inches}		
	Mass (approx.)	When using the attachment plate : Approx. 870 q {1.92 lbs}		
	(approx.)			
	Finish			
*1 Convert	Finish	When using the base bracket: Approx. 1.3 kg (2.87 lbs) When using the base bracket: Approx. 1.3 kg (2.87 lbs) Main body: Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel Dome section: Polycarbonate resin, Clear		

Appearance



[&]quot;1 Converted value

"2 When "On (level 30 or 31)" is selected for "Super Dynamic", the frame rate is restricted to a maximum of
15fps (30fps mode) or 12.5fps (25fps mode).

"3 Transmission for 2 streams can be individually set.

"4 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

"5 The audio output can be switched to the monitor output.

Refer to the Operating Instructions on the our support web site for descriptions of how to switch the output.

Bundled License

■ AI-VMD/AI People Counting for 360-degree fisheye

AI Video Motion Detection

- Al differentiates between vehicles and people. It further detects and sends warning notifications when they enter a specified area.
- Intruder detection:

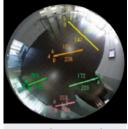
It is possible to issue an alarm when a moving object enters a specified area.

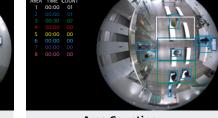
- · Cross Line detection:
- It is possible to issue an alarm when an object moving in the specified direction crosses a specified threshold.
- Loitering detection: It is possible to issue an alarm when a moving object enters a specified area and stays there for a specified amount of time.



People Counting

- Cross Line Counting: It provides function of counting the number of people who crossed the line in a certain direction which is set with "Line"
- Area Counting (Queue Management): It provides function of counting the number of people in the set area.



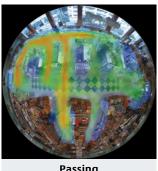


Cross Line Counting

Area Counting

Heat map

• Heat-map provides statistical information of traffic lines. Counts up both passing and loitering in the shooting area.







Occupancy detection

• Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.



■ AI Privacy Guard for 360-degree fisheye

Al Privacy Guard

• To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.



Original image





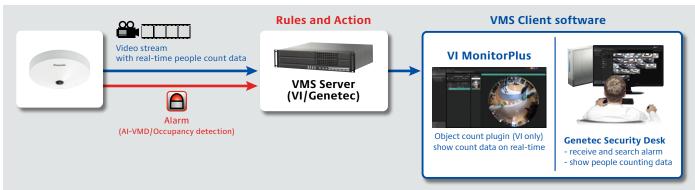


Multi-Al Server

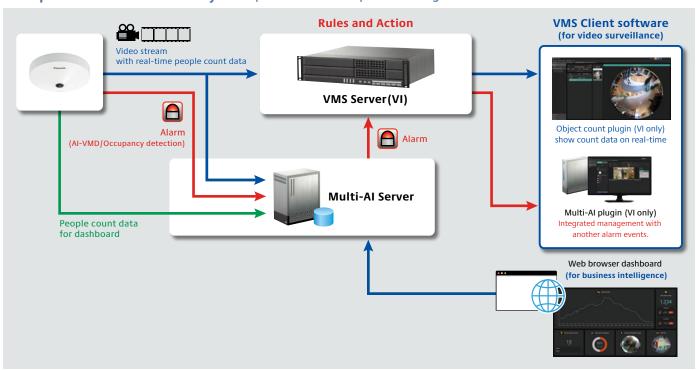
• Multi-Al Server stores the best shot images and metadata captured by i-PRO network cameras. Then, it collates this data with the watch list registered in the client software and issues an alarm when a match is found. The server does not require expensive hardware because i-PRO network cameras handle the advanced processing. The server can also be installed on the same hardware as the VMS.

The system comprises the Multi-Al Server, the Al application installed on i-PRO network cameras utilizing Al engines, and the Multi-Al plug-in software for the VMS client.

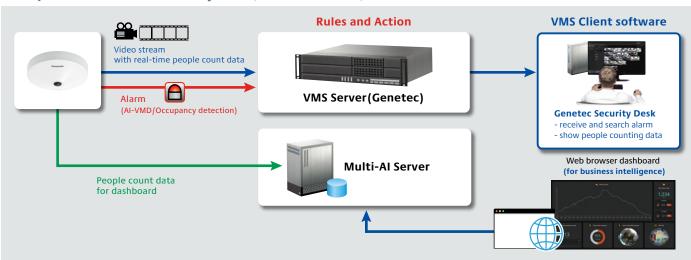
Example of Basic connection system (without Multi-Al Server)



Example of Basic connection system (with Multi-Al Server) for Video Insight



Example of Basic connection system (with Multi-Al Server) for Genetec



*VMS Server and Multi-Al Server can be installed on the same server.

Optional Accessories

Fiber Optic Media Converter Unit

Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.

WV-S25F1 (Light gray)



Basic specifications

	Power source	24 V AC(50 Hz/60 Hz)
Ambient Operating Temperature :		-40 °C to +60 °C {-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})
	Ambient Operating Humidity :	10 % to 100 %(no condensation)
Waterproof		IP66(IEC60529)
	Shock resistance	IK10(IEC62262)

*This unit requires an SFP module.

*Refer to website for compatible SFP modules.

https://i-pro.com/global/en/surveillance/training-support/support/technical-information <Control No. : C0504>

• Support specifications for SFP module

SFP Port Type	LC type
Ethernet Speed	100/1000 Mbps
Supply voltage, current	3.3 V typical, Max. 300 mA
SFP Cage	Standard mini-SFP cage
	(For 6.5 mm pitch SFP)

*Different Color Model WV-X65F1 (Fine silver)

■ Mount Bracket / Other

	WA	ALL	POLE	CORNER	HANGING	CEILING	OTHER
	1	2	1	1	1	1	1
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A	Attachment pipe (For 3rd party bracket) WV-QAT500-W
bination	-					*For indoor installation only.	(i-PRO white)
шоэ	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)	Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)	Mount Bracket WV-QSR501-W (i-PRO white)		Mount Bracket WV-QSR501-W (i-PRO white)
	3	*If needed.	+ 0	+ 0			8

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- Android is a trademark of Google LLC. - ONVIF is a trademark of ONVIF, Inc.
- All other trademarks identified herein are the property of their respective owners.

- Important
 Safety Precautions: Carefully read the Basic Information, Installation Guide and
- Operating Instructions before using this product.

 Panasonic i-PRO Sensing Solutions Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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