Panasonic

BUSINESS

Preliminary

Full HD / 1,920 x 1,080 60 fps H.265 Vandal Resistant Network Camera featuring *Super Dynamic*

Key Features

- Extreme Super Dynamic technologies deliver 144 dB wide dynamic range.
- Intelligent Auto (iA) feature provides increased discernibility even in environments with poor visibility.
- High sensitivity with Day/Night (ICR*) function : 0.012 lx (Color), 0.006 lx (B/W) at F1.6
  *ICR : IR Cut filter Removal
- H.265 compression and Smart coding technology realize high image quality streaming at low bit rates.
- Intelligent Face Compression provides high picture quality at "Face best shot area" while reducing other non-important areas to save the network bandwidth and the disk space of recorder.
- Encryption and alteration detection functions enhanced the security.
- New rain wash coating is a special coating applied to the surface of the transparent cover that makes it difficult for water droplets to adhere to the dome cover.
- The Easy Kitting Package makes setting camera easy.

with Base Bracket

Onvif

Specifications

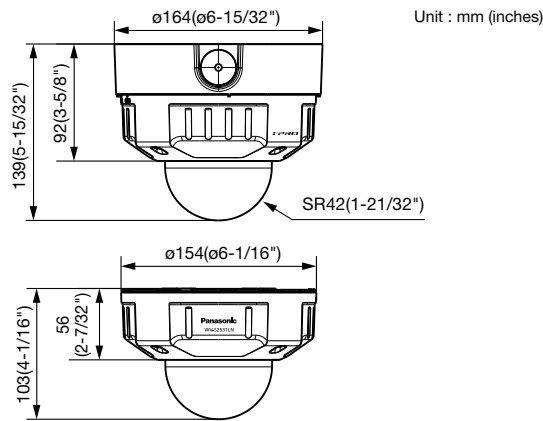| Camera	Image Sensor	Approx. 1/3 MOS image sensor
	Minimum Illumination	Color : 0.012 lx, BW : 0.006 lx
		(F1.6, Maximum shutter : Max. 1/30s, AGC : 11)
		BW : 0 lx
		(F1.6, Maximum shutter : Off(1/30 s), AGC : 11, when the IR LED is lit)
		Color : 0.0008 lx, BW : 0.0004 lx
		(F1.6, Maximum shutter : Max. 16/30s, AGC : 11) *1
	White Balance	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Shutter Speed	Off(1/30) to 1/10000
		*1/30 Fix to 2/100 Fix is available during 30 fps mode only.
	Intelligent Auto	On / Off
	Super Dynamic*2	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	144 dB (Super Dynamic : On)
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.
	Black light compensation / High light compensation	BLC (Black light compensation) / HLC (High light compensation) / Off (Only when Super dynamic and Intelligent Auto : Off)
	Fog compensation	On / Off (Only when Intelligent Auto : Off)
	AGC	The level can be set in the range of 0 to 11.
	Day/Night (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	IR LED	Off / Auto (High / Mid / Low) irradiation distance : 40 m (131 feet)
	Digital Noise Reduction	The level can be set in the range of 0 to 255.
	Video Motion Detection	On / Off, 4 areas available
	Privacy Zone	On / Off (up to 8 zones available)
	Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment	Auto back focus / Manual / Adjusting method (Auto / Preset / Fix)
Lens	Focal length	2.8 - 10 mm {1/8 inches - 13/32 inches}
	Zoom ratio	3.6 x (Motorized zoom / Auto Focus)
	Angular Field of View	[16 : 9 mode] Horizontal : 30° (TELE) – 108° (WIDE)
		Vertical : 17° (TELE) – 58° (WIDE)
		[4 : 3 mode] Horizontal : 25° (TELE) – 90° (WIDE)
		Vertical : 19° (TELE) – 65° (WIDE)
	Maximum Aperture Ratio	1 : 1.6 (WIDE) – 1 : 3.35 (TELE)
	Focusing Range	0.3 m {11-13/16 inches} – ∞
Adjusting Angle		Horizontal : ±180°, Vertical : -30 to +85°, Yaw : ±100°
Browser GUI	Camera Control	Brightness, AUX On / Off
	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	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Image Resolution	•2 mega pixel [16 : 9] (30/60 fps)
		1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180
		•3 mega pixel [4 : 3] (30 fps)
		2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
		*Used by super resolution techniques
	H.265/	Transmission Mode	Constant bit rate / VBR / Framerate priority / Best effort
	H.264 *3	Transmission Type	Unicast / Multicast
	JPEG	Image Quality	10 steps
	Smart Coding	Smart Facial Coding : On (Smart Facial Coding*) / On (Auto VIQS) / Off
		*Smart Facial Coding is only available with Stream(1).
		GOP (Group of pictures) : On (Advanced)* / On (Low) / On (Mid) / Off
		*On(Advanced) is only available with H.265.

Network	Audio Compression	G.726 (ADPCM) : 32 kbps / 16 kbps,
		G.711 : 64 kbps,
		AAC-LC*4 : 64 kbps / 96 kbps / 128 kbps
	Audio Mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, DiffServ
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, DiffServ
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card (Option)	H.265 / H.264 recording :
		Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
		JPEG recording :
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SD (SDHC/SDXC) card :
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer, Panasonic protocol output
Input/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, RCA jack
		An NTSC or PAL signal can be outputted from camera
	Microphone/Line Input	ø3.5 mm stereo mini jack
		(Applicable microphone : Plug-in power type)
		Supply voltage : 2.5 V ±0.5 V
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN, Auto time adjustment) (x1),
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)
General	Power Source and Power Consumption	DC power supply : DC12 V / 750 mA / Approx. 9 W
		PoE (IEEE802.3af compliant) Device :
		DC48 V / 195 mA / Approx. 9.4 W* (Class 0 device)
		* Maximum power consumption on the camera power input side.
		** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	IR LED : On -40 °C to +50 °C (-40 °F to 122 °F)
		IR LED : Off -40 °C to +60 °C (-40 °F to 140 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	Compliant with 50J IEC60068-2-75, IK10 (IEC 62262)
	Dimensions * Installing using the base bracket	ø164 mm x 139 mm (H) {ø6-15/32 inches x 5-15/32 inches (H)}
		Dome radius 42 mm {1-21/32 inches}
	Mass (approx.)	When using base bracket : Approx. 1.6 kg {3.53 lbs}
		When using attachment plate : Approx. 1.2 kg {2.65 lbs}
	Finish	Main body : Aluminum die cast, light gray
		Dome section : Clear polycarbonate resin (New Rain wash coating)

*1 Converted value *2 Super Dynamic function is automatically set off on 60 fps mode.
*3 H.265 / H.264 can be selected for each stream.
*4 Only use AAC-LC (Advanced Audio Coding - Low Complexity) when recording audio on an SD memory card.

Appearance

Unit : mm (inches)

ø164(ø6-15/32")
139(5-15/32")
92(3-5/8")
SR42(1-21/32")

ø154(ø6-1/16")
103(4-1/16")
56(2-7/32")

Optional Accessories

Embedded Ceiling Mount Bracket **WV-Q169A**	Smoke Dome Cover **WV-CW7S**	Smoke dome cover with rain wash coating **WV-CW7SN**	Sun Shade **WV-Q7118**

Ceiling Mount Bracket **WV-Q105A**	Ceiling Mount Bracket **WV-Q121B**	Wall Mount Bracket **WV-Q122A**	Mount Bracket **WV-Q124**
* For Indoor installation only	(Use with the WV-Q124 (suspension mount bracket) to be able to install on a ceiling.)	(Use with the WV-Q124 (suspension mount bracket) to be able to install on a wall.)	(Use when installing the WV-S2531LN using the WV-Q122A.)

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• Masses and dimensions are approximate.   • Specifications are subject to change without notice.

Important
– Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions before using this product.
– Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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