Panasonic
BUSINESS

i-PRO EXTREME

Preliminary

4-megapixel iA(Intelligent Auto) H.265 Network Camera

Panasonic WV-U2540L captures the highest quality 4MP resolution images in even very challenging and dynamic environments. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage.

Extreme image quality allows evidence to be captured even under challenging conditions
- Auto Shutter speed control for fast moving vehicles
- Sharp and clear images of a walking person day & night
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 102dB for backlit situations involving headlights and shadows on night streets
- Environmental durability : IP66, IK10 compliant and Dehumidification device

Extreme bandwidth compression with Panasonic H.265 Smart Coding
- Longer recording and less storage compared to any H.264 based compression techniques
- Self-learning ROI* encoding (Auto VIQS) detects movement within the image and compresses the areas with little motion in order to reduce transmitted data while maintaining the quality of the image.
  *Region of Interest

Key Features
- 4-megapixel images up to 30fps
- iA (intelligent Auto)
- Super Dynamic 102dB
- Color night vision (0.019 to 0.3 lx)
- H.265 Smart Coding
- Corridor mode
  (90 degrees or 270 degrees in image rotation)

Industry examples
- Safe Cities
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
- Retail / Logistics / Education / Hospital / Building

*The actual product may differ.

Specifications

Camera	Image Sensor	Approx. 1/2.7 type CMOS image sensor
	Minimum Illumination	Color : 0.3 lx, BW: 0.12 lx (50IRE, F2.0, Maximum shutter: Off (1/30s), AGC: 11) BW : 0 lx (50IRE, F2.0, Maximum shutter: OFF (1/30 s), AGC: 11, when the IR LED is lit) Color : 0.019 lx, BW: 0.0075 lx (50IRE, F2.0, Maximum shutter: max. 16/30s, AGC: 11) *1
	White Balance	ATW1/ ATW2/ AWC
	Maximum shutter	[30fps mode] Max. 1/10000 s to Max. 16/30 s [25fps mode] Max. 1/10000 s to Max. 16/25 s
	Intelligent Auto	On / Off
	Super Dynamic	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	Max.102 dB (TBD) (Super Dynamic: On, Level: 31)
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.
	Back light compensation / High light compensation	BLC/ HLC/ Off, The level can be set in the range of 0 to 31. The level can be set in the range of 0 to 31. (only when Super Dynamic/ Intelligent auto: Off)
	Fog compensation	On / Off, The level can be set in the range of 0 to 8. (only when Intelligent auto / auto contrast adjust: Off)
	Maximum gain (AGC)	The level can be set in the range of 0 to 11.
	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: 20 m {Approx. 66 ft}(TBD)
	Digital Noise Reduction	The level can be set in the range of 0 to 255.
	Video Motion Detection (VMD)	On / Off, 4 areas available
	Privacy Zone	On / Off (up to 8 zones available)
	Image rotation	0° (Off)/ 90°/ 180° (Upside-down)/ 270°
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)
Lens	Focal length	3.16 mm{1/8 inches}
	Optical zoom	1x
	Extra zoom	1.0x - 1.3x(when resolution is 1920x1080) 1.0x - 4.0x(when resolution is 640x360)
	Angular Field of View	[16 : 9 mode] *[4:3 mode] is not supported. Horizontal : 100°, Vertical : 54°
	Maximum Aperture Ratio	1 : 2.0
	Focusing Range	1 m {39-3/8 inches} – ∞
Adjusting Angle		Horizontal (PAN) angle: -175 °– +175 °, Vertical (TILT) angle: -30 °– +80 ° Azimuth (YAW) angle: ±100°
Browser GUI	Camera Control	Brightness
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution	[16 : 9 mode] *[4:3 mode] is not supported.
	H.265	2560×1440, 1920×1080, 640×360, 320×180
	H.265*2 Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	Transmission Type	Unicast port(AUTO) / Unicast port(MANUAL) / Multicast
	JPEG Image Quality	10 steps
	Smart Coding	GOP(Group of pictures) control: On(Frame rate control)/ On(Advanced)/ On(Mid.)/ On(Low)/ Off AUTO VIQS: On/ Off
	Audio Compression	—
	Audio transmission mode	—

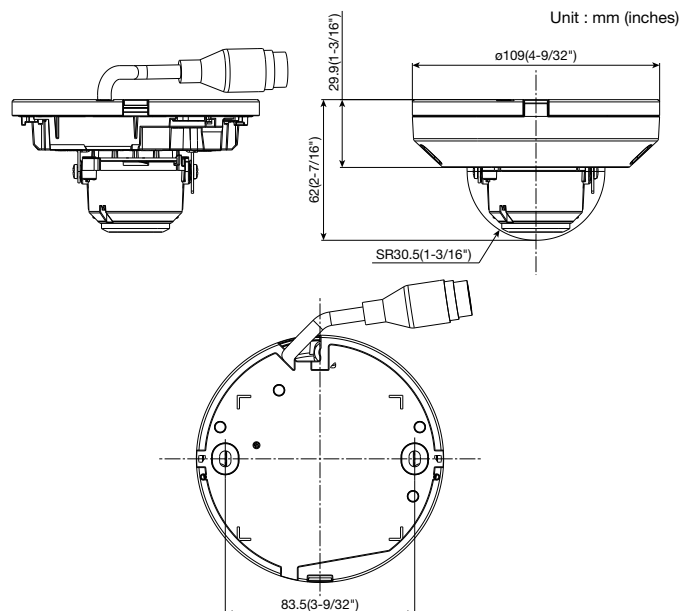| Network	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card (Option)	H.265 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible microSDXC/microSDHC Memory Card: microSD speed class6 or higher Panasonic 32 GB*, 64 GB**model *microSDHC card, **microSDXC card
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
Alarm	Alarm Source	VMD alarm, SCD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, Panasonic alarm protocol output
Input/ Output	Monitor Output(for adjustment)	—
	Audio input	—
	Audio Output	—
	External I/O Terminals	—
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and Power Consumption	PoE (IEEE802.3af compliant) Device: DC48 V 110 mA, Approx. 5.3 W (Class 2 device)(TBD)
	Ambient Operating Temperature	-30 °C to +50 °C (-22 °F to +122 °F) {Power On range: -20 °C to +50 °C (-4°F to +122 °F)}
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Water and Dust Resistance*3	IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Wind Resistance	Up to 40 m/s {approx. 89 mph}
	Dimensions	ø109 mm (W) x 62 mm (H) {ø4-9/32 inches × 2-7/16 inches (H)}(TBD) Dome radius 30.5 mm {1-3/16 inches}
	Mass (approx.)	270 g {0.60 lbs.}
	Finish	Main body : Aluminum die cast / pc resin, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : Polycarbonate resin, Clear

*1 Converted value
*2 Transmission for 3 streams can be individually set.
The maximum frame rate for each stream in multiple streams is 15 fps.
*3 Only when installation work is properly performed according to the Installation Guide and appropriate waterproof treatment is performed.

Appearance

Unit : mm (inches)

ø109(4-9/32")

29.9(1-3/16")

62(2-7/16")

SR30.5(1-3/16")

83.5(3-9/32")

Optional Accessory

■ Dome Cover

Dome Cover (Smoke type)
WV-QDC500S

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