

U series H.265 i-PRO Fixed Camera

Built-in varifocal lens indoor models (WV-U1132/U1142/U2132L/U2142L)

Built-in varifocal lens outdoor models (WV-U1532L/U1542L/U2532L/U2542L)

Built-in fixed lens indoor models (WV-U1130/U2130L/U2140L)

Built-in fixed lens outdoor models (WV-U2530L/U2540L)

Ver. 3.00

Panasonic i-PRO Sensing Solutions Co., Ltd.



Build a high-performance security system while keeping initial investment low.



**Providing TCO friendly solution
with VI System**

U series i-PRO cameras follows with the basic performance of the current i-PRO series and responds to the desire to install a basic surveillance system.

Visibility

- High sensitivity with color night vision (FHD models) 
- View objects in dark condition with IR LED
- Super dynamic 120dB (FHD), 102dB(4MP) / Corridor mode

Data Compression

- H.265 compression with improved smart coding technology

Video Data Analytics

- VMD(Video Motion Detection) + Scene change detection

Reliability

- Vandal resistant / IP66 compliant

Easy installation

- Built-in compact motorized varifocal lens
- Easy kitting



■ High sensitivity with color night vision (FHD models)



It shows clear color images in low light condition at night time

Other
leading brand
Camera (1)



Other
leading brand
Camera (2)



i-PRO FHD
WV-U2132L



Under 0.23 lux
lighting environment

■ High sensitivity with color night vision (4K models)



It shows clear color images in low light condition at night time

Other
leading brand
Camera (1)



Other
leading brand
Camera (2)



i-PRO 4MP
WV-U2142L



Under 0.23 lux
lighting environment

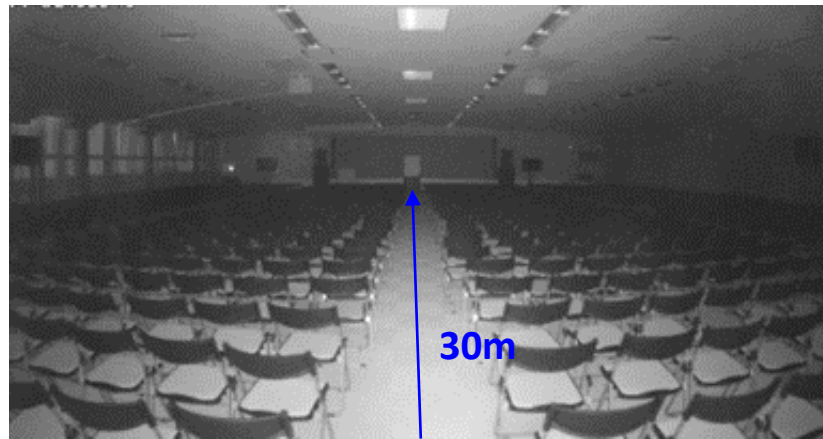
■ View objects in dark conditions

Enables to visible the objects in even 0 lux condition
by built in IR LED i-PRO camera

Other leading brand camera



i-PRO FHD camera WV-U2132L



Under 0 lux lighting environment

■ View objects in dark conditions

Enables to visible the objects in even 0 lux condition
by built in IR LED i-PRO camera

Other
leading brand
Camera (1)



Other
leading brand
Camera (2)



i-PRO 4MP
WV-U2142L



Under 0 lux
lighting environment

■ Super Dynamic 120dB (FHD models)

Both bright and dark area are visible by Super Dynamic function.

Other
leading brand
Camera (1)



Other
leading brand
Camera (2)



i-PRO FHD
WV-U2132L



■ Super Dynamic 102dB (4K models)

Both bright and dark area are visible by Super Dynamic function.

Other
leading brand
Camera (1)



Other
leading brand
Camera (2)



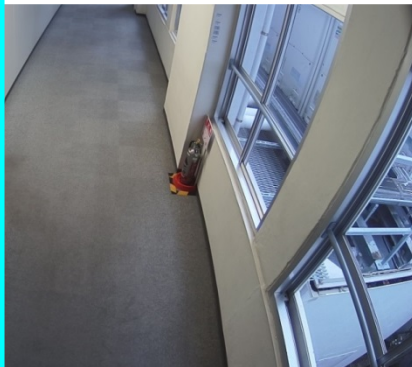
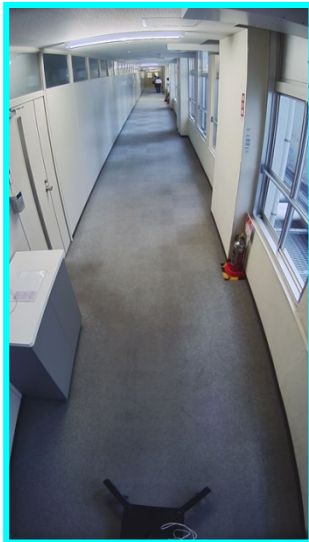
i-PRO 4MP
WV-U2142L



■ Corridor mode

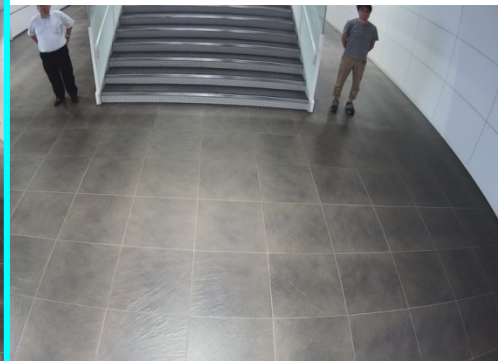
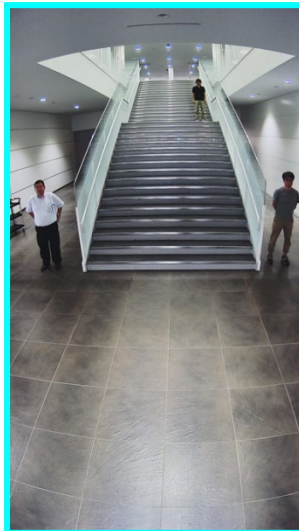
Monitoring can be made suitable for corridors, aisles, etc. by setting the image to be monitored at an aspect ratio of 9:16.

Corridor mode



In corridor

Corridor mode



Stairs in the lobby

■ H.265 compression with smart coding technology

GOP control

Reduces encoding data by using p-frame in place of i-frame when no motion is detected.

With motion

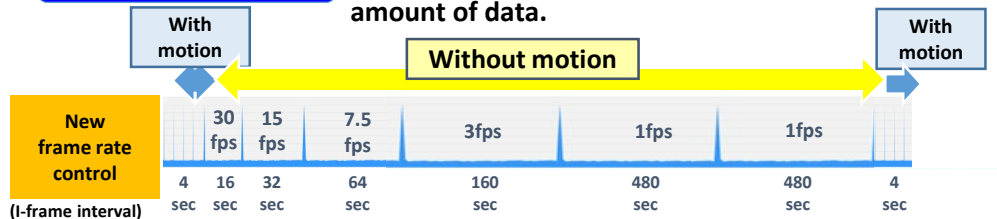


Without motion



Frame control

Dynamically reduce the i-frame rate to reduce the amount of data.



Auto-VIQS

Automatically determines areas with and without motion and reduce the data volume of those without motion



Low bit rate
(Higher
Compression)

High. bit rate
(Original compression)

*Simulated image

Bit rate reduction

Conventional
H.264



i-PRO
H.265 + Smart coding
Max.95%

Value in bit rate depends on scene

■ H.265 compression with smart coding technology (FHD models)

Daytime

Other leading brand camera
with bit rate control

i-PRO FHD camera WV-SU2132L
with smart coding

H.264



Max.
50%

■ H.265 compression with smart coding technology (4K models)

Daytime

Other leading brand camera
with bit rate control

i-PRO 4MP camera WV-SU2142L
with smart coding

H.264



Max.
50%

■ H.265 compression with smart coding technology (FHD models)

Low light

Other leading brand camera
with bit rate control

i-PRO FHD camera WV-SU2132L
with smart coding

H.264



Max.
50%

Achieve high endurance and long life usage under extreme conditions

**Dustproof
Test**



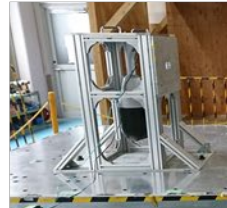
**High-Temperature
Test**



**Pressure
Test**



**Earthquake
Test**



**Waterproof Test
IP66**



IP6K9K



**Lifetime
Test**



**Thunder
Test**



**Static Electricity
Test**



**Drop
Test**



**Box Shaking
Test**



**Vibration
Test**



Achieve high endurance and long life usage under extreme conditions

■ Vandal Resistant

*Except Indoor models

- ✓ Highly impact resistant
- ✓ IEC 62262 IK10



■ Water & Dust Resistant

*Except Indoor models

- ✓ IP66 (IEC60529)
- ✓ Type 4X(UL50E)
- ✓ NEMA 4X compliant

■ Anti-corrosion screw

*Except Indoor models

Adoption of Anti-corrosion screws prevents corrosion and improves maintainability.

■ Wind Resistance

*Except Indoor models

Operates under up to 40 m/s
(approx. 89 mph) environment

■ Built in motorized varifocal lens (Built-in varifocal lens models only)

Equipped with a compact motorized varifocal lens
that is easy to install and adjust in a small body.

Collaboration with Tamron
which is optical lens leading company



TAMRON

Realized to developed compact 2.5x
motorized varifocal lens

Conventional
varifocal lens



New varifocal lens
Is around 70% smaller

Conventional
models



U series
models



Less
equipment volume
around 40%

■ Built in motorized varifocal lens (Built-in varifocal lens models only)

Easy to adjust focus and zoom to reduce installation time & cost

i-PRO camera WV-U2132L



Push the TELE and WIDE buttons.



Network



Adjustment via PC

■ Easy kitting

Reduces time and effort to install multiple cameras.



(Ex. WV-U2540L)



Without unboxing the camera before setup You can connect to a LAN cable very easy and quickly.

Specifications – Built-in varifocal lens models



Box type		WV-U1132 	WV-U1532L 	WV-U1142 	WV-U1542L 
Image sensor		1 / 3 type CMOS		1 / 2.7 type CMOS	
Compression		H.265 / JPEG			
Resolution / Effective pixels		1920 x 1080 (Full HD) / Approx. 2.4MP		2560 X 1440 (Approx.4M) / Approx. 5.2MP	
Max. frame rate		30 fps(Stream 1) , 15 fps(Stream 2, Stream 3) *When stream 1 is set to 30 fps, streams 2 and 3 cannot be output			
Minimum Illumination *Shutter speed 1/30s	Color	0.1lx @F2.0 , 0.006 lx @ shutter speed 16/30		0.3lx @F2.0 , 0.019 lx @ shutter speed 16/30	
	B/W	0.04lx @F2.0, 0.0025 lx @ shutter speed 16/30	0 lx @ IR	0.12lx @F2.0, 0.0075 lx @ shutter speed 16/30	0 lx @ IR
Angular Field of View *16:9 mode	Horizontal	44° (Tele) – 102° (Wide)		44° (Tele) – 103° (Wide)	
	Vertical	24° (Tele) - 56° (Wide)		25° (Tele) - 57° (Wide)	
Intelligent Auto / WDR / Smart coding / Corridor mode		Yes / Super Dynamic (120dB) / Yes / Yes		Yes / Super Dynamic (102dB) / Yes / Yes	
Focus / Zoom		Motorized / 2.5 x Motorized(Digital 4x)			
IR LED		-	30m(100ft)	-	20m(65ft)
Audio / External I/O terminals		- / -			
SD memory card slot		1slot (microSD/SDXC/SDHC)			
Secure communication		- / -			
Environmental		-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10	-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10
Power Source		PoE			
Ambient Operating Temperature		-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)	-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)
Dimension (mm)		59 (W) x 49 (H) x 116 (D)	112.5 (W) x 112.5 (H) x 262 (D)	59 (W) x 49 (H) x 116 (D)	112.5 (W) x 112.5 (H) x 262 (D)

Specifications – Built-in varifocal lens models



Dome type		WV-U2132L 	WV-U2532L 	WV-U2142L 	WV-U2542L 
Image sensor		1 / 3 type CMOS		1 / 2.7 type CMOS	
Compression		H.265 / JPEG			
Resolution / Effective pixels		1920 x 1080 (Full HD) / Approx. 2.4MP		2560×1440 (Approx.4M) / Approx. 5.2MP	
Max. frame rate		30 fps(Stream 1) , 15 fps(Stream 2, Stream 3) *When stream 1 is set to 30 fps, streams 2 and 3 cannot be output			
Minimum Illumination *Shutter speed 1/30s	Color	0.1lx @F2.0 , 0.006 lx @ shutter speed 16/30		0.3lx @F2.0 , 0.019 lx @ shutter speed 16/30	
	B/W	0 lx @ IR			
Angular Field of View *16:9 mode	Horizontal	43° (Tele) – 100° (Wide)		44° (Tele) – 102° (Wide)	
	Vertical	24° (Tele) - 56° (Wide)	24° (Tele) - 55° (Wide)	25° (Tele) - 57° (Wide)	25° (Tele) - 56° (Wide)
Intelligent Auto / WDR / Smart coding / Corridor mode		Yes / Super Dynamic (120dB) / Yes / Yes		Yes / Super Dynamic (102dB) / Yes / Yes	
Focus / Zoom		Motorized / 2.5 x Motorized(Digital 4x)			
IR LED		30m(100ft)		20m(65ft)	
Audio / External I/O terminals		- / -			
SD memory card slot		1slot (microSDXC/SDHC)			
Secure communication		- / -			
Environmental		-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10	-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10
Power Source		PoE			
Ambient Operating Temperature		-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)	-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)
Dimension (mm)		Ø129.5 x 101 (H)	Ø154 x 103 (H)	Ø129.5 x 101 (H)	Ø154 x 103 (H)

Specifications – Built-in fixed lens models



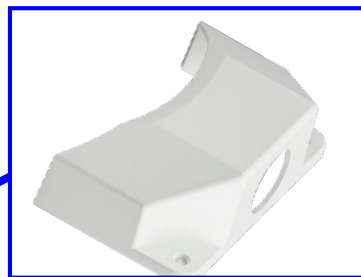
Box type		WV-U1130 
Image sensor		1 / 3 type CMOS
Compression		H.265 / JPEG
Resolution / Effective pixels		1920 x 1080 (Full HD) / Approx. 2.4MP
Max. frame rate		30 fps(Stream 1) , 15 fps(Stream 2, Stream 3) *When stream 1 is set to 30 fps, streams 2 and 3 cannot be output
Minimum Illumination *Shutter speed 1/30s	Color	0.1lx @F2.0 , 0.006 lx @ shutter speed 16/30
	B/W	0.04lx @F2.0, 0.0025 lx @ shutter speed 16/30
Angular Field of View *16:9 mode	Horizontal	102°
	Vertical	55°
Intelligent Auto / WDR / Smart coding / Corridor mode		Yes / Super Dynamic (120dB) / Yes / Yes
Focus / Zoom		Fixed / -
IR LED		-
Audio / External I/O terminals		- / -
SD memory card slot		1slot (microSD/SDXC/SDHC)
Secure communication		- / -
Environmental		-
Power Source		PoE
Ambient Operating Temperature		-10° C to +50° C (-14° F to 122° F)
Dimension (mm)		59 (W) x 49 (H) x 116 (D)

Specifications – Built-in fixed lens models

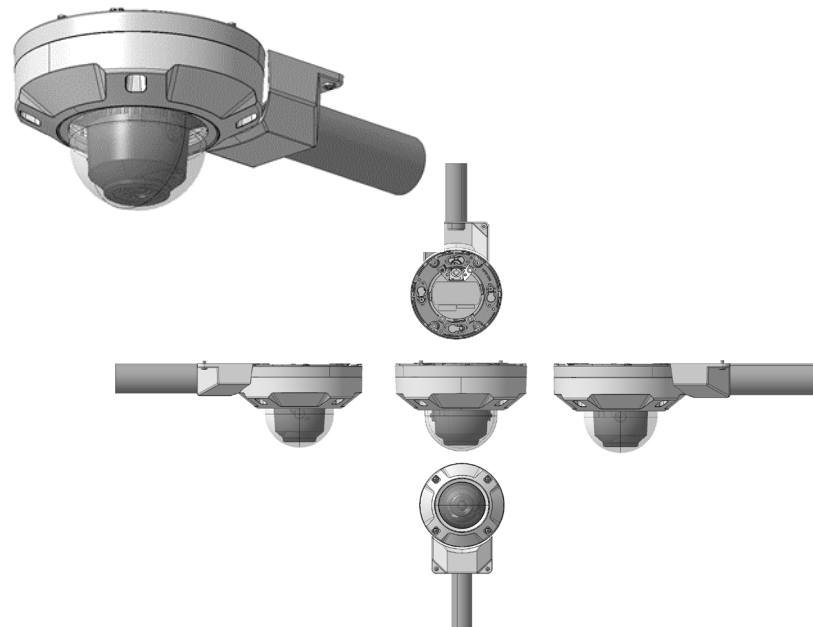


Dome type		WV-U2130L 	WV-U2530L 	WV-U2140L 	WV-U2540L 
Image sensor		1 / 3 type CMOS		1 / 2.7 type CMOS	
Compression		H.265 / JPEG			
Resolution / Effective pixels		1920 x 1080 (Full HD) / Approx. 2.4MP		2560 X 1440 (Approx.4M) / Approx. 5.2MP	
Max. frame rate		30 fps(Stream 1) , 15 fps(Stream 2, Stream 3) *When stream 1 is set to 30 fps, streams 2 and 3 cannot be output			
Minimum Illumination *Shutter speed 1/30s	Color	0.1lx @F2.0 , 0.006 lx @ shutter speed 16/30		0.3lx @F2.0 , 0.019 lx @ shutter speed 16/30	
	B/W	0 lx @ IR			
Angular Field of View *16:9 mode	Horizontal	100°			
	Vertical	54°			
Intelligent Auto / WDR / Smart coding / Corridor mode		Yes / Super Dynamic (120dB) / Yes / Yes		Yes / Super Dynamic (102dB) / Yes / Yes	
Focus / Zoom		Fixed / -			
IR LED		30m(100ft)		20m(65ft)	
Audio / External I/O terminals		- / -			
SD memory card slot		1slot (microSDXC/SDHC)			
Secure communication		- / -			
Environmental		-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10	-	IP66, Type 4X(UL50E), NEMA 4X compliant, IK10
Power Source		PoE			
Ambient Operating Temperature		-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)	-10° C to +50° C (-14° F to 122° F)	-30° C to +50° C (-22° F to 122° F)
Dimension (mm)		ø109 mm x 62 mm (H)			

Piping connection is possible without using Base Bracket WV-QJB502-W



Attachment



Optional Accessories - Optional dome covers and brackets

i-PRO

**Outdoor
Vandal Resistant Dome
WV-U2532L / U2542L**



Dome Cover(Smoke type)



WV-CW7S

	Ceiling					
	1	2	3	4	5	6
Combination	WV-Q105A 	WV-QJB501-W 	WV-QEM500-W 	WV-QCL100-W WV-QCL101-W (US only) 	WV-QCL501-W 	WV-QAT500-W 
				3rd parties pipe 	WV-QSR501-W 	WV-QSR501-W 
						3rd parties pipe 
Combination	Wall			Pole	Corner	
	1	2	3	1	1	
	WV-QWL501-W 	WV-QJB500-W 	WV-QSR500-W 	WV-QPL500-W 	WV-QCN500-W 	
Combination	WV-QSR501-W 	WV-QWL500-W 	WV-QJB501-W 	WV-QJB500-W WV-QWL500-W  	WV-QJB500-W WV-QWL500-W  	

Only recommended products are listed

Optional Accessories - Optional dome cover and brackets

**Indoor
Vandal Resistant Dome
WV-U2132L/U2142L**



**Dome Cover(Smoke type)
WV-CR1S**

	Ceiling				
	1	2	3	4	5
Combination	WV-Q105A 	WV-QEM100-W 	WV-QCL501-W 	WV-QCL100-W WV-QCL101-W (US only) 	WV-QAT500-W 
			WV-QSR501-W 	3rd.parties pipe 	WV-QSR501-W 
					3rd.parties pipe 
Combination	Wall		Pole	Corner	
	1	2	1	1	
	WV-QWL501-W 	WV-QJB500-W 	WV-QPL500-W 	WV-QCN500-W 	
Combination	WV-QSR501-W 	WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 	

Only recommended products are listed

**Built-in Fixed Lens Dome
WV-U2130L/U2140L
U2530L/2540L**



**Dome Cover(Smoke type)
WV-QDC500S**

	Ceiling		Wall	Pole	Corner
	1	2	1	1	1
Combination	WV-QJB502-W  or WV-QJB502-G 	WV-QCL100-W WV-QCL101-W (US only) 	WV-QJB500-W 	WV-QPL500-W 	WV-QCN500-W 
		3rd parties pipe 	WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 

Only recommended products are listed

**Outdoor Bullet
WV-U1532L / U1542L**



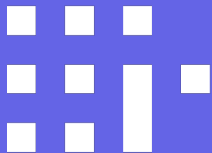
	Ceiling		Wall	Pole	Corner
	1	2	1	1	1
Combination	WV-QJB500-W 	WV-QCL100-W WV-QCL101-W (US only) 	WV-QJB500-W 	WV-QPL500-W 	WV-QCN500-W 
		3rd parties pipe 		WV-QJB500-W (If necessary) 	WV-QJB500-W (If necessary) 

Only recommended products are listed

Those cameras are suitable under the extreme conditions

- ✓ Retail
 - ✓ Education
 - ✓ Bank / Logistics / Hospital / Building
 - ✓ Public safety
- and more.



-PRO