

i-PRO 4K & 5MP Fixed Network Cameras

WV-S2572L / S2552L (Outdoor Vandal Resistant Dome model)

WV-S2272L / S2252L (Indoor Vandal Resistant Dome model)

WV-S1572L / S1552L (Outdoor Bullet Vandal Resistant model)

Ver. 1.00

Panasonic i-PRO Sensing Solutions Co., Ltd.




Designed to equip security professionals with the best possible CCTV footage for evidence, the new i-PRO 4K & 5MP cameras captures high quality picture images even in very challenging, dynamic environments that require reliable hardware.



Improved intelligent Auto and smart coding with object detection enable to build the advanced surveillance system.

Visibility

- 4K & 5MP high resolution image
- Improved intelligent Auto **iA** / Super dynamic 132dB
- High sensitivity with color night vision 
- View objects in dark condition with IR LED
- ClearSight coating (Option)

Data Compression

- H.265 compression with improved smart coding technology

Video Data Analytics

- Bundled the improved i-VMD(intelligent Video Motion Detection) + Scene change detection

Reliability

- Vandal resistant / IP66 compliant / Anti-corrosion

Data Security

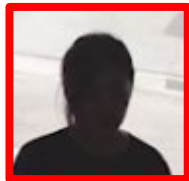
- Secure communication with Digicert certification



■ Improved intelligent Auto with object detection (5MP model) **iA**

Improving visibility of monitoring objects

by optimizing image quality utilizing intelligent Auto feature.



i-PRO 5MP WV-S2552L

Super Dynamic : OFF

intelligent Auto : OFF

- ◆ Shutter speed
- ◆ Auto exposure
- ◆ Gamma correction
- ◆ Noise reduction



i-PRO 5MP WV-S2552L

Super Dynamic 132dB : ON

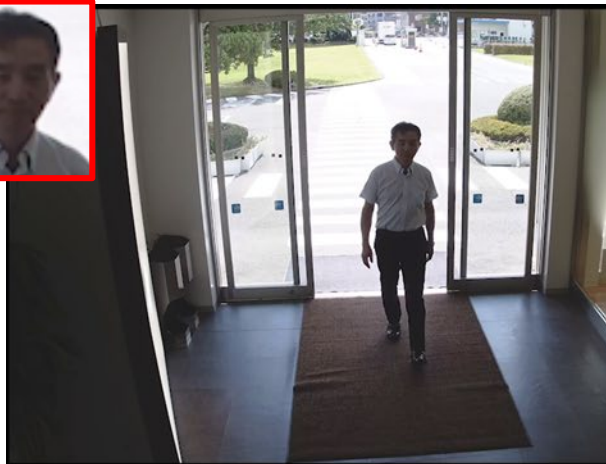
intelligent Auto : ON

■ Improved intelligent Auto with object detection (4K model)



Improving visibility of monitoring objects

by optimizing image quality utilizing intelligent Auto feature.



i-PRO 4K WV-S2572L
Super Dynamic : OFF
intelligent Auto : OFF

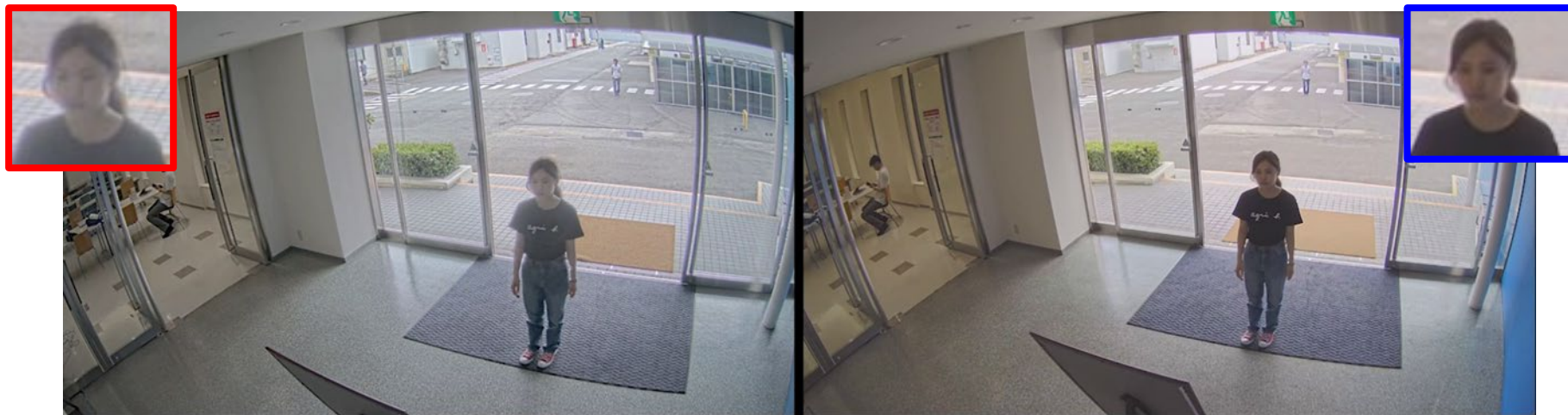
- ◆ Shutter speed
- ◆ Auto exposure
- ◆ Gamma correction
- ◆ Noise reduction



i-PRO 4K WV-S2572L
Super Dynamic 132dB : ON
intelligent Auto : ON

■ Improved intelligent Auto with object detection (5MP model) **iA**

Comparison image quality with other leading brand camera



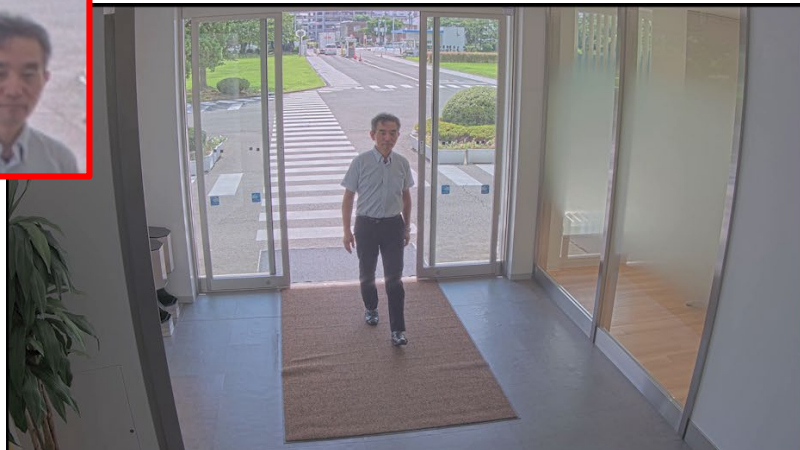
Other leading brand camera
Wide Dynamic Range : ON

i-PRO 5MP WV-S2552L
Super Dynamic 132dB : ON
intelligent Auto : ON

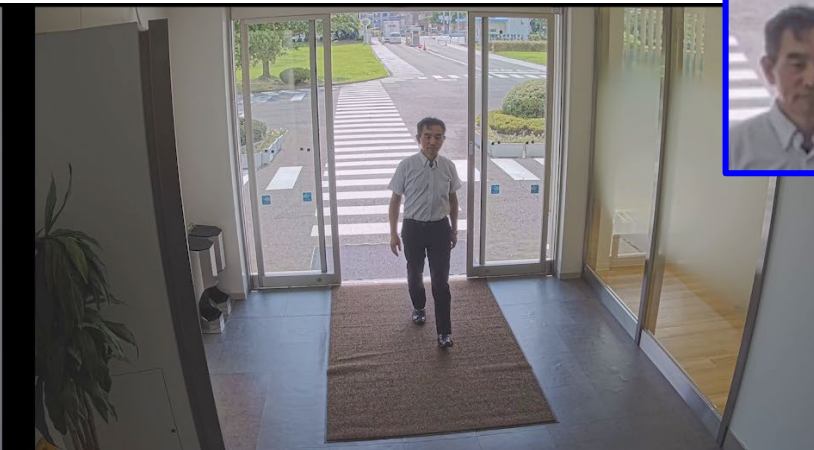
■ Improved intelligent Auto with object detection (4K model)



Comparison image quality with other leading brand camera



Other leading brand camera
Wide Dynamic Range : ON



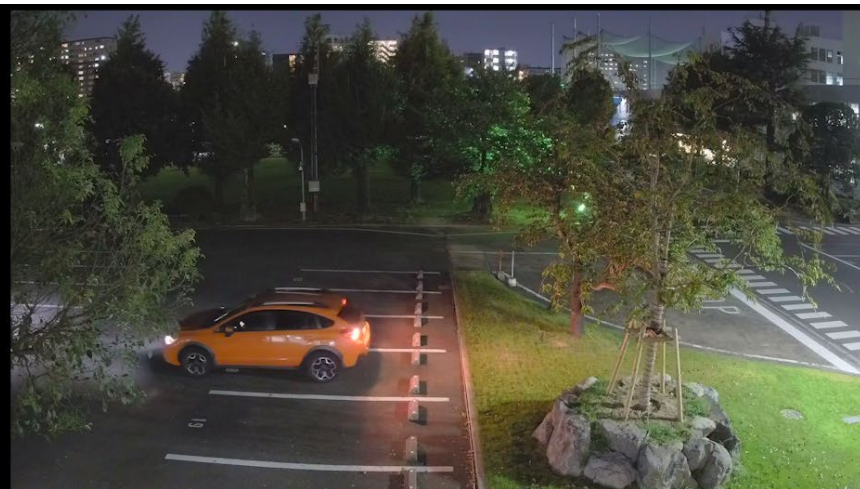
i-PRO 4K WV-S2572L
Super Dynamic 132dB : ON
intelligent Auto : ON

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

It produces clear color images in low light or night-time conditions.



Other leading brand camera



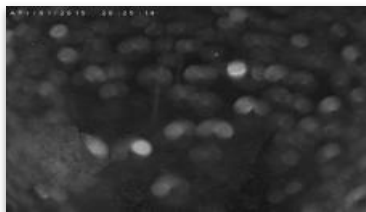
i-PRO 4K WV-S2572L

Under 3-4 lux lighting environment

■ ClearSight coating (Option)

The specially coated (ClearSight) cover resists water, stains, and dust accumulation, enabling the capture of clear images even in rainy environments, reducing the need for periodic maintenance.

Without
any special
coating



With
ClearSight
coating



It shows clear images even if
IR-LEDs are on when it is rain

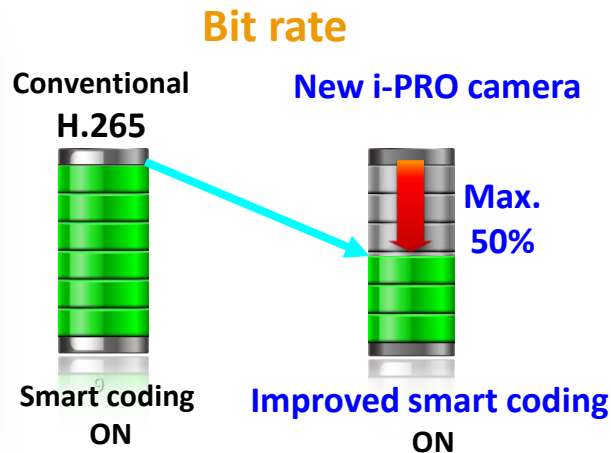
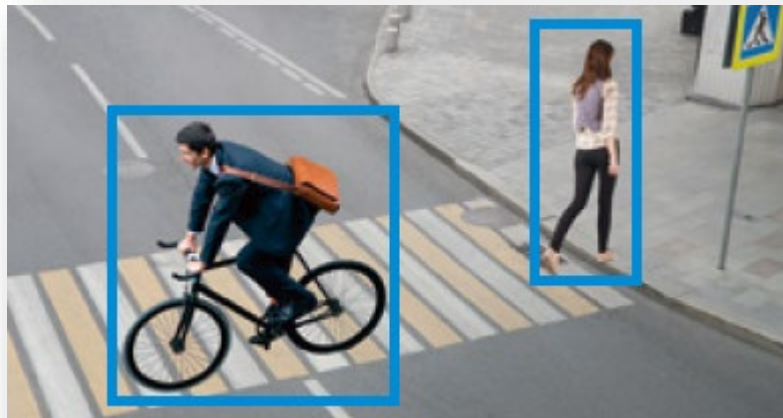


With
ClearSight coating

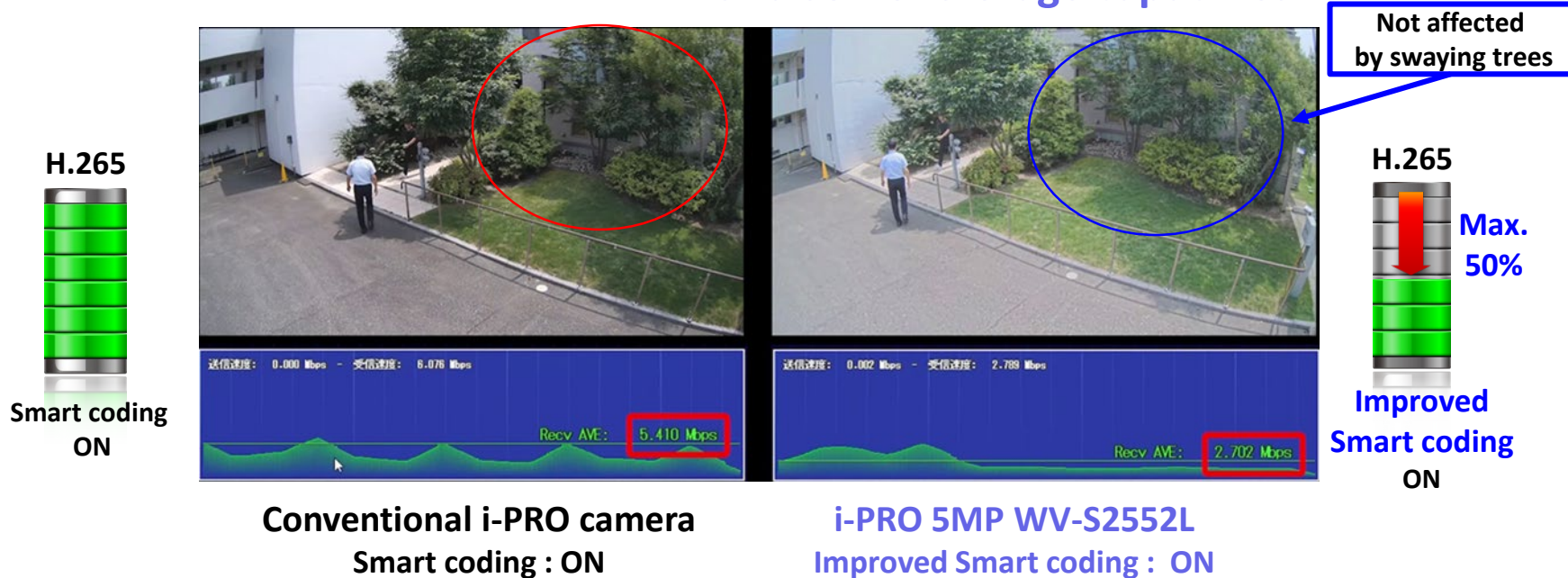
Without
any special coating

■ Improved Smart Coding with object detection

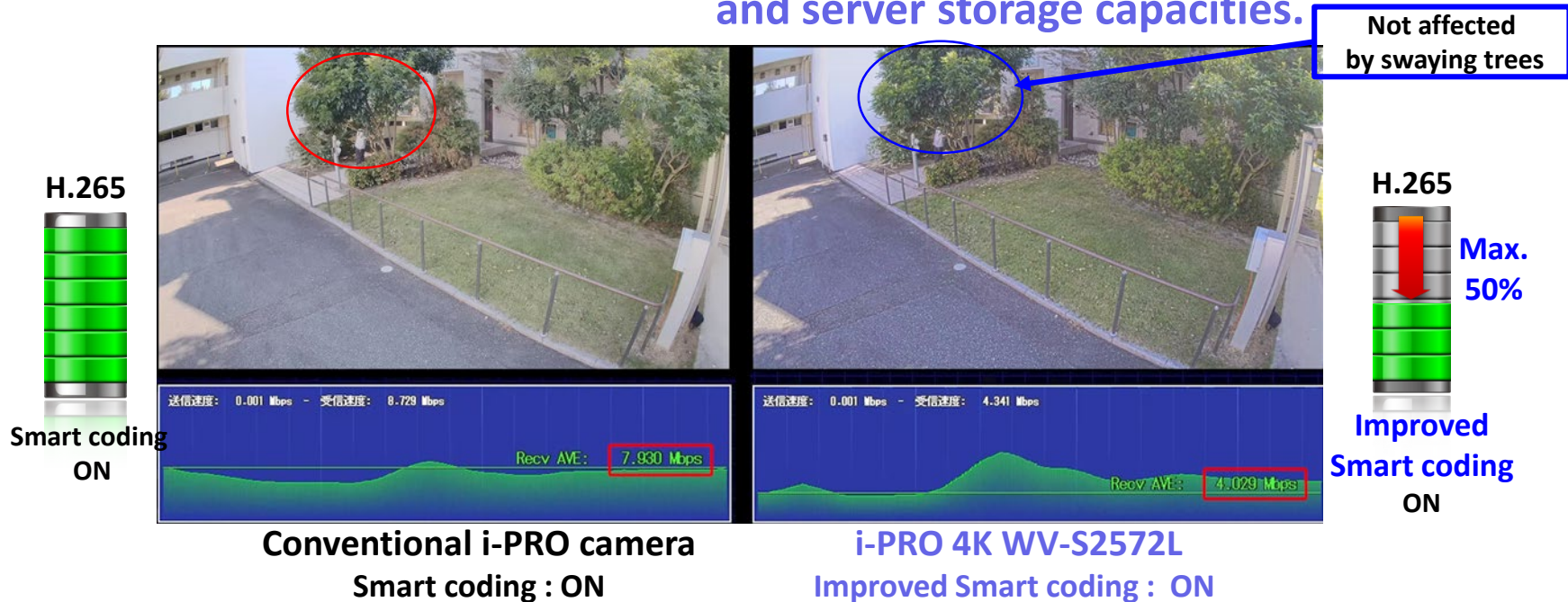
Detects objects such as faces, humans, vehicles and motorcycles / bicycles within the image and compresses the areas without objects in order to reduce transmitted data while maintaining image quality.



■ Improved Smart Coding with object detection (5MP model) Optimize data compression to conserve network bandwidth and server storage capacities.



■ Improved Smart Coding with object detection (4K model) Optimize data compression to conserve network bandwidth and server storage capacities.



■ Improved Smart Coding with object detection (5MP model)

Comparison data compression with other leading brand camera



■ Improved Smart Coding with object detection (4K model)

Comparison data compression with other leading brand camera



Achieve high endurance and long life usage under extreme conditions

Dustproof Test



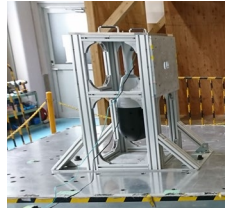
High-Temperature Test



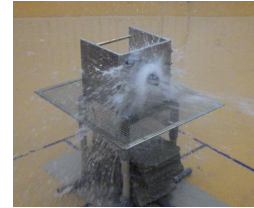
Pressure Test



Earthquake Test



**Waterproof Test
IP66**



IP6K9K



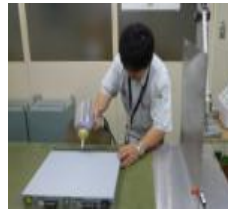
Lifetime Test



Thunder Test



Static Electricity Test



Drop Test



Box Shaking Test



Vibration Test



Achieve high endurance and long life usage under extreme conditions

■ Vandal Resistant

- ✓ Highly impact resistant
- ✓ IEC 62262 IK10



■ Water & Dust Resistant

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

*Except WV-S2252L/S2272L

■ Anti-corrosion screw

*Except WV-S2252L/S2272L

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

■ Wind Resistance

*Except WV-S2252L/S2272L

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

Secure communication with DigiCert certification



Vulnerability Assessment

- 3rd party assessment and penetration tests made to achieve higher security standards



DigiCert Device Certification

- Pre-installed DigiCert Certification
- Video tampering detection



End-to-End Data Encryption

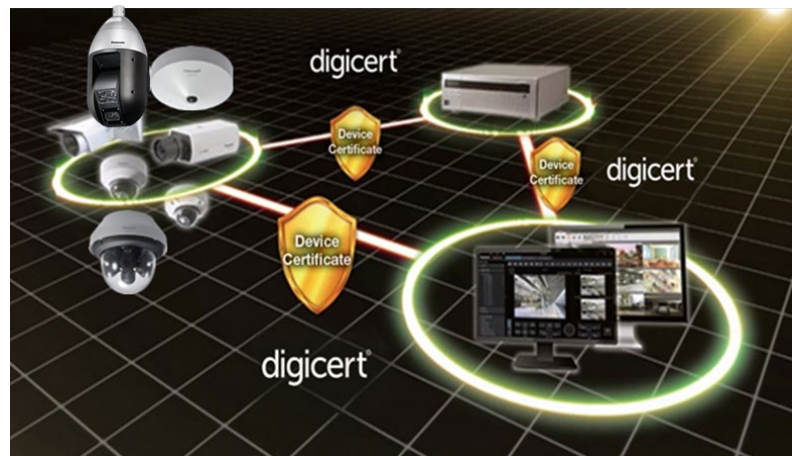
- Support full encryption communication
- Camera encryption recording on-the-edge



FIPS140-2 CAVP compliant




(Federal Information Processing Standardization)

*Using encryption module standardized by FIPS publication 140-2






Specifications (5MP models)



		WV-S2252L 	WV-S2552L 	WV-S1552L 
Image sensor		1 / 2.8 type CMOS		
Max. video resolution (pixel)		16 : 9 mode : 3072 x 1728 (Super resolution), 4 : 3 mode : 3072 x 2304 (Super resolution)		
Max. frame rate		30 fps * 15fps (Super Dynamic: On, Level: 30 or more)		
Minimum Illumination *Shutter speed 1/30s	Color	0.07lx @F1.3, 0.0044 lx @ shutter speed 16/30		
	B/W	0.04lx @F1.3, 0.003 lx @ shutter speed 16/30, 0 lx @ IR		
Angular Field of View *16:9 mode	Horizontal	33° (Tele) - 105° (Wide)	33° (Tele) - 103° (Wide)	34° (Tele) - 106° (Wide)
	Vertical	19° (Tele) - 56° (Wide)	19° (Tele) - 55° (Wide)	19° (Tele) - 57° (Wide)
intelligent Auto / WDR / Smart coding		intelligent Auto / Super Dynamic (132dB) / Smart Coding		
IR LED /Max.irradiation distance		Yes, / 30 m (Approx 98 ft)	Yes / 40 m (Approx. 131 ft)	
Audio Interface / Compression		input (ø3.5 mm stereo mini jack x 1, Line x1), Output(ø3.5 mm stereo mini jack x 1) / G.726, G.711, AAC-LC		
SD memory card slot		1slot (SDXC/SDHC/SD)		
Secure communication		FIPS140-2 CAVP compliant		
External I/O Terminals		ALARM IN 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) , ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)		
Environmental		IK10	IP66, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75, IK10	IP66, Type 4X(UL50), NEMA 4X compliant IK10
Power Source / Ambient Operating Temperature		DC12V,PoE -10° C to +50° C (+14° F to +122° F)	DC12V, PoE, -40° C to +60° C (-40° F to 140° F) / IR LED is off (Power On range : -30° C to +60° C {-22° F to +140° F})	
Dimension (mm)		ø129.5 mm x 103.5 mm (H)	ø164 mm x 139 mm (H) *When using base bracket	133 mm (W) x 133 mm (H) x 377 mm (L) *With adaptor box




Specifications (4K models)



		WV-S2272L 	WV-S2572L 	WV-S1572L 
Image sensor		1 / 1.8 type CMOS		
Max. video resolution (pixel)		3840 x 2160		
Max. frame rate		30 fps * 15fps (Super Dynamic: On, Level: 30 or more)		
Minimum Illumination *Shutter speed 1/30s	Color	0.09lx @F1.5, 0.006 lx @ shutter speed 16/30		
	B/W	0.05lx @F1.5, 0.003 lx @ shutter speed 16/30, 0 lx @ IR		
Angular Field of View *16:9 mode	Horizontal	52° (Tele) - 101° (Wide)	52° (Tele) - 101° (Wide)	53° (Tele) - 104° (Wide)
	Vertical	29° (Tele) - 55° (Wide)	29° (Tele) - 55° (Wide)	30° (Tele) - 56° (Wide)
intelligent Auto / WDR / Smart coding		intelligent Auto / Super Dynamic (132dB) / Smart Coding		
IR LED /Max.irradiation distance		Yes, / 30 m (Approx 98 ft)	Yes / 40 m (Approx. 131 ft)	
Audio Interface / Compression		input (ø3.5 mm stereo mini jack x 1, Line x1), Output(ø3.5 mm stereo mini jack x 1) / G.726, G.711, AAC-LC		
SD memory card slot		1slot (SDXC/SDHC/SD)		
Secure communication		FIPS140-2 CAVP compliant		
External I/O Terminals		ALARM IN 1(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) , ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)		
Environmental		IK10	IP66, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75, IK10	IP66, Type 4X(UL50), NEMA 4X compliant IK10
Power Source / Ambient Operating Temperature		DC12V,PoE -10° C to +50° C (+14° F to +122° F)	DC12V, PoE, -40° C to +60° C (-40° F to 140° F) / IR LED is off (Power On range : -30° C to +60° C {-22° F to +140° F})	
Dimension (mm)		ø129.5 mm x 103.5 mm (H)	ø164 mm x 139 mm (H) *When using base bracket	133 mm (W) x 133 mm (H) x 377 mm (L) *With adaptor box

It shows the maximum distance at which a camera's tele and wide can meet DORI. *1

*This value does not indicate the performance of the camera




 <p>WV-S1552L</p>	Resolution		Tele 34°		Wide 106°	
	3072 × 1728 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	200.96	659.32	46.3	151.90
	Observe	62.5ppm / 19ft	80.38	263.73	18.52	60.76
	Recognize	125ppm / 38ft	40.19	131.86	9.26	30.38
Identify	250ppm / 76ft	20.1	65.93	4.63	15.19	
 <p>WV-S2552L</p>	Resolution		Tele 33°		Wide 103°	
	3072 × 1728 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	207.42	680.51	48.87	160.34
	Observe	62.5ppm / 19ft	82.97	272.20	19.55	64.14
	Recognize	125ppm / 38ft	41.48	136.10	9.77	32.07
Identify	250ppm / 76ft	20.74	68.05	4.89	16.03	
 <p>WV-S2252L</p>	Resolution		Tele 33°		Wide 105°	
	3072 × 1728 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	207.42	680.51	47.14	154.67
	Observe	62.5ppm / 19ft	82.97	272.20	18.86	61.87
	Recognize	125ppm / 38ft	41.48	136.10	9.43	30.93
Identify	250ppm / 76ft	20.74	68.05	4.71	15.47	

*1 It is calculated with the camera installed horizontally.

*2 Super resolution mode

It shows the maximum distance at which a camera's tele and wide can meet DORI. *1

*This value does not indicate the performance of the camera

 <p>WV-S1572L</p>	Resolution		Tele 53°		Wide 104°	
	3840 × 2160 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	60.00	196.86	154.04	505.37
	Observe	62.5ppm / 19ft	24.00	78.74	61.61	202.15
	Recognize	125ppm / 38ft	12.00	39.37	30.81	101.07
Identify	250ppm / 76ft	6.00	19.69	15.40	50.54	
 <p>WV-S2572L</p>	Resolution		Tele 52°		Wide 101°	
	3840 × 2160 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	63.31	207.71	157.46	516.61
	Observe	62.5ppm / 19ft	25.32	83.08	19.55	64.14
	Recognize	125ppm / 38ft	12.66	41.54	31.49	103.32
Identify	250ppm / 76ft	6.33	20.77	15.75	51.66	
 <p>WV-S2272L</p>	Resolution		Tele 52°		Wide 101°	
	3840 × 2160 *2		Distance (m)	Distance (ft)	Distance (m)	Distance (ft)
	Detect	25ppm / 8ft	63.31	207.71	157.46	516.61
	Observe	62.5ppm / 19ft	25.32	83.08	19.55	64.14
	Recognize	125ppm / 38ft	12.66	41.54	31.49	103.32
Identify	250ppm / 76ft	6.33	20.77	15.75	51.66	

*1 It is calculated with the camera installed horizontally.

*2 Super resolution mode

**Indoor
Vandal Resistant Dome
WV-S2252L / S2272L**



**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
		Wall		Pole	Corner	
		1	2	1	1	
Combination		WV-QWL501-W 	WV-QJB500-W 	WV-QPL500-W 	WV-QCN500-W 	
		WV-QSR501-W 	WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 	

**Outdoor
Vandal Resistant Dome
WV-S2552L / S2572L**



**Dome Cover
(Smoke type)**



**WV-CW7S
WV-CW7SN
(ClearSight coating)**

**Dome Cover
(Clear type)**



**WV-CW7CN
(ClearSight coating)**







		Ceiling							
		1	2	3	4				
Combination		Supplied 	WV-QEM500-W 	WV-QCL501-W 	3rd parties pipe 				
				WV-QSR501-W 	WV-QSR501-W 				
					WV-QAT500-W 				
		Wall			Pole	Corner			
		1	2	3	1	1			
Combination		WV-QWL501-W 	WV-QJB500-W 	WV-QSR500-W 	WV-QPL500-W 	WV-QCN500-W 			
		WV-QSR501-W 	WV-QWL500-W 	Supplied 	WV-QJB500-W WV-QWL500-W 	WV-QJB500-W WV-QWL500-W 			

**Outdoor Bullet
WV-S1552L / S1572L**



Front panel(Clear type)

WV-CW8CN(ClearSight coating)

	Ceiling	Wall	Pole	Corner
	1	1	1	1
Combination	Supplied 	Supplied 	WV-QPL500-W 	WV-QCN500-W 
			Supplied 	Supplied 

Those cameras are suitable under the extreme conditions

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



-PRO