Panasonic BUSINESS

H.265 FHD IR PTZ Network Camera

WV-X6531N (Outdoor 40x zoom model) WV-S6532LN (Outdoor 22x zoom model)

Ver. 1.01

Panasonic i-PRO Sensing Solutions Co., Ltd.



How to achieve wide area surveillance even in dark environments such as night?



Concept & Main Features



New i-PRO extreme camera built-in IR-LEDs enable the capture of low light evidence even at distances 350 meter away in a 0 lux environment.

Extreme Visibility

View objects in dark condition with IR LED with new auto focus High powered 40x optical zoom / Intelligent zoom stabilization ClearSight coating

Dehumidification and defrosting with the new defroster Intelligent Auto / 30 degree elevation angle

Extreme Compression

H.265 compression with new smart coding technology

Extreme Analytics

i-VMD(intelligent Video Motion Detection) license bundled

Extreme Data Security

Secure communication with Digicert (Formerly Symantec) certification

Extreme Reliability

Vandal resistant / IP66 compliant

Usability

Support Fiber Optic Media Converter Unit (Option)



40x WV-X6533LN

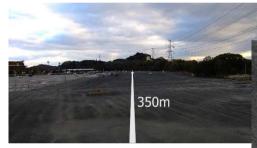
22x WV-X6532LN

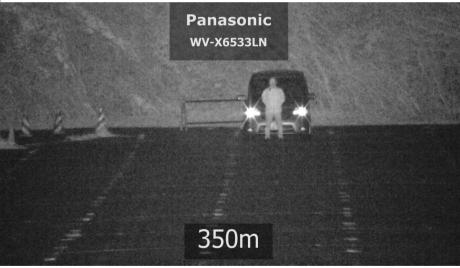


✓ <u>View objects in dark conditions</u>

Enables user to see an object at 350m away with built-in IR-LED lighting

even in a 0 lux environment.





New i-PRO
extreme camera
WV-X6533LN



✓ View objects in dark conditions

Improve visibility and low-light environments by mixing visible and IR LED lighting through a new auto focus with visible light cut filter

Other leading brand camera

i-PRO Extreme camera WV-X6533LN

New i-PRO
extreme camera
WV-X6533LN

Zoom in
New Auto Focus

Under visible light



✓ High powered 40x optical zoom

40x optical zoom function can survey further, and clearly see objects at long distances









✓ <u>Intelligent zoom stabilization</u>

Enables the capture of a stabilized image even when the object is located a long distance away by absorbing vibrations.





✓ ClearSight coating

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

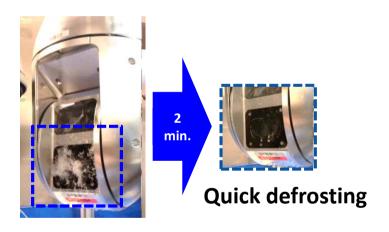




✓ <u>Dehumidification and defrosting with the new defroster</u>

By the defroster on the transparent cover part on the front of the lens, against temperature drop inside the camera, the temperature inside the camera is kept properly to prevent dew condensation.





Enables to capture clear image with the new defroster under extreme environments



✓ <u>iA(Intelligent Auto)</u>

iA monitors scene dynamics and motion to adjust key camera settings automatically all in real-time, reducing distortion such as motion blur on moving objects.

iA

iA OFF iA ON

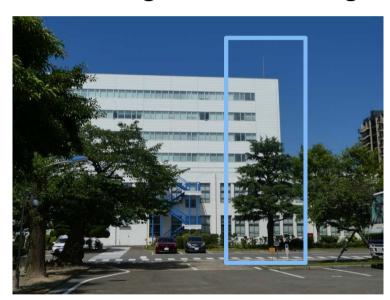




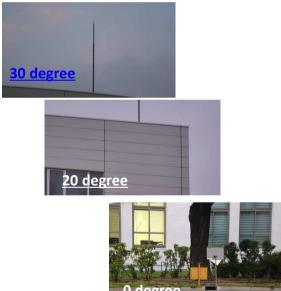


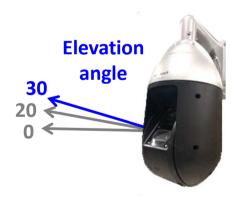
√ 30 degree elevation angle

Enables to monitor dam release, landslide, iron tower and slope road by using with 30 degrees elevation angle from low installation location.



Smart phone camera image





Extreme Compression



High bit rate

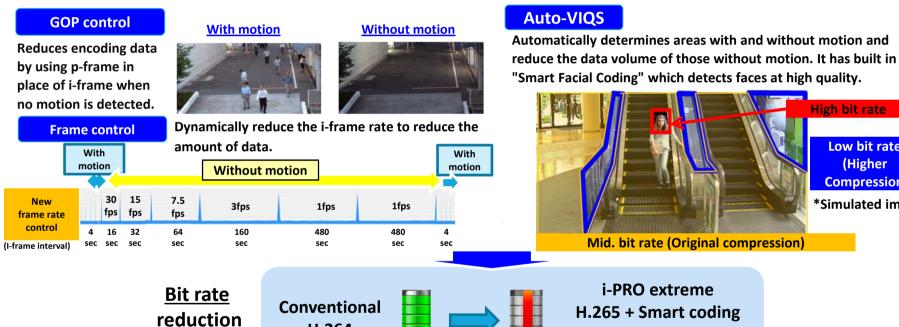
Low bit rate

(Higher

Compression)

*Simulated image

H.265 compression with new smart coding technology



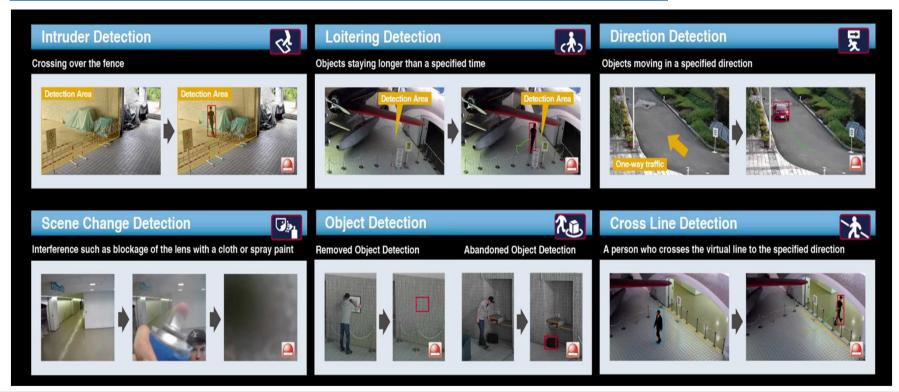
H.264 Max.95%

Value in bit rate depends on scene



Extreme Analytics

✓ <u>i-VMD(Intelligent Video Motion Detection) license bundled</u>



Panasonic BUSINESS

Extreme Data Security



✓ <u>Secure communication with Digicert(Formerly Symantec) certification</u>



Vulnerability Assessment

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



DigiCert (Formerly Symantec) **Device Certification**

- Pre-installed DigiCert (formerly Symantec)
 Certification
- Video tampering detection



End-to-End Data Encryption

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



FIPS140-2 Level 1 CAVC compliant

(Federal Information Processing Standardization)

- For federal/public safety usage



Extreme Reliability



Achieve high endurance and long life usage under extreme conditions

Dustproof Test



■ Pressure Test

Earthquake Test

■ Waterproof Test











■ Lifetime Test

■ Thunder Test

Static Electricity
Test

Drop Test

■ Box Shaking Test











Panasonic BUSINESS

Extreme Reliability



Vandal resistant (IK10) under challenging environments





Extreme Reliability



✓ High Durability Mechanism for PTZ Cameras

The precise gear drive allows longer life than belt-drive and reduce replacement & field dispatch costs.

Pan/Tilt Gear Drive (No backlash mechanism)



Around 4 times longer lifespan than conventional rubber belt drive

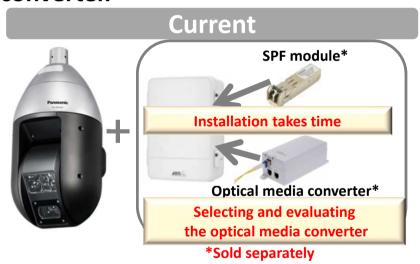
Panasonic BUSINESS

Usability



✓ Support Fiber Optic Media Converter Unit (Option)

The optional optical interface mounting bracket with optical media converter reduces installation time and enables construction of a long distance monitoring system without spending time on selecting and evaluating the optical media converter.





Incorporate an SFP module into mounting bracket



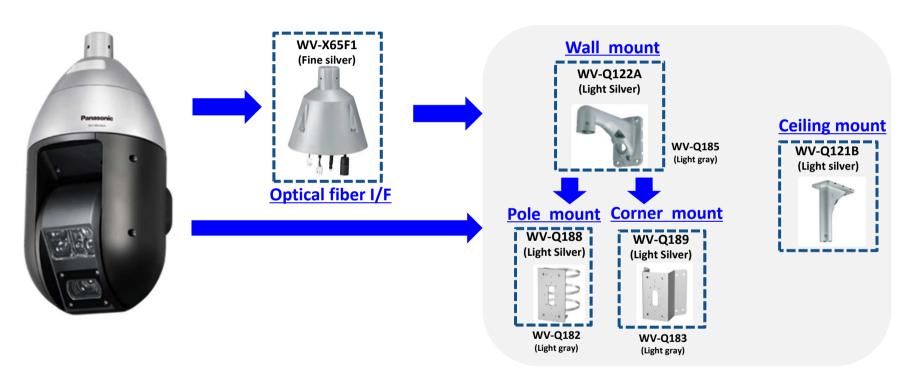
Specifications

		WV-S6530N	WV-S6532LN	WV-X6531N	WV-X6533LN
Image sensor		1 / 2.9 type CMOS		1 / 2.8 type CMOS	
Zoom ratio		21x	22 x		40x
Max. frame rate				60 fps	
Minimum Illumination *Shutter speed 1/30s	Color		0.015lx @F1.6, 0.0	01 lx @ shutter speed 16/30	
	B/W		0.006lx @F1.6, 0.0004 lx	@ shutter speed 16/30, 0 lx @ IR	
Angular Field of View *16:9 mode	Horizontal	3.4° (Tele) – 73° (Wide)	3.4° (Tele) – 66° (Wide)	2.1° (Tele) – 65° (Wide)	1.9° (Tele) -66° (Wide)
	Vertical	2.0° (Tele) - 42° (Wide)	2.0° (Tele) - 39° (Wide)	1.2° (Tele) - 39° (Wide)	1.1° (Tele) - 39° (Wide)
Intelligent Auto / WDR / Smart coding			Yes / Super Dynamic (144dB) / Yes		
Adjusting Angle: PAN / TILT		0 to 350° / -30° to 90°	360° endless / -30° to 210°	$360\degree$ endless $/$ -15 \degree to 195 \degree	360° endless / -30° to 210°
Panning speed : Manual, Preset		0.5 ° to 100° /s, 100° /s	0.065 ° to 150° /s, 300° /s	0.065 ° to 120° /s, 300° /s	0.065 ° to 150° /s, 300° /s
Tilting speed: Manual, Preset		0.5 ° to 100° /s, 100° /s	0.065 ° to 150° /s, 300° /s	0.065 ° to 120° /s, 300° /s	0.065 ° to 150° /s, 300° /s
IR LED		-	100m(AC24V/60WPoE/PoE+)	-	350m(AC24V/60WPoE) /150m(PoE+)
Day /Night function		IR cut filter ⇔ blank glass	IR cut filter ⇔ visible light cut filter	IR cut filter ⇔ blank glass	IR cut filter ⇔ visible light cut filter
Image stabilizer			Intelligent zoom stabiliza	tion (Electric Image Stabilization)	
Fiber Optic Media Converter Unit (Option)				Yes	
ClearSight				Yes	
Environmental			IP66, Type 4X(UL50E), NEMA 4X coi	npliant, 50J (IEC60068-2-75 compliai	t), IK10
Power Source		AC24V / PoE+	AC24V / PoE+ / 60W PoE	AC24V / PoE+ / 60W PoE	AC24V / PoE+ / 60W PoE
Dimension (mm)		ø229 x 360 (H)	ø226 x 415 (H)	ø229 x 360 (H)	ø226 x 415 (H)





■ Optional brackets and optical fiber I/F

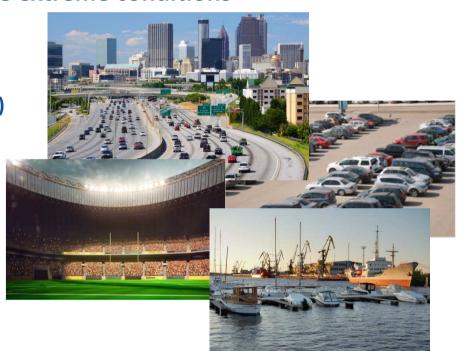






Those cameras are suitable under the extreme conditions

- √ Safe city
- ✓ Transportation (Airport / Train / Subway)
- ✓ Critical infrastructure
- ✓ Stadium and more.



Panasonic BUSINESS

