Panasonic BUSINESS

i-PRO

i-PRO FHD IR PTZ Camera With Heavy Salt Damage Resistance

WV-X6533LNS (Outdoor 40x optical zoom model)

WV-S6532LNS (Outdoor 22x optical zoom model)

Ver. 1.00

Panasonic i-PRO Sensing Solutions Co., Ltd.

With Salt-air Corrosion Resistant supports a variety of coastal areas security for gulf monitoring and disaster countermeasures

Gulf Guard

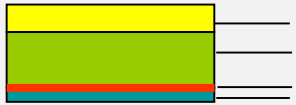
Disaster / Tsunami Measures

Coastal logistics warehouse

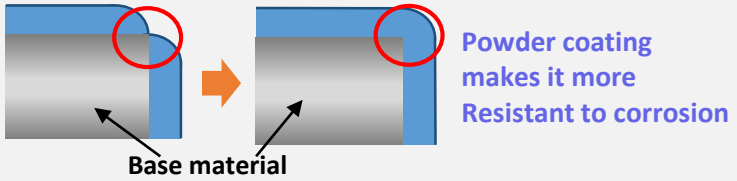
Flood gate monitoring

Salt-Air Corrosion Resistant Body
are able to use in in a heavy salt damaging environment.

■ **Salt-air corrosion resistant coating for the part of aluminum die-cast**



[3-layer coating process]
Over coat, thicker than 35μm
Middle coat, thicker than 65～100μm
Oxide film process
die-cast

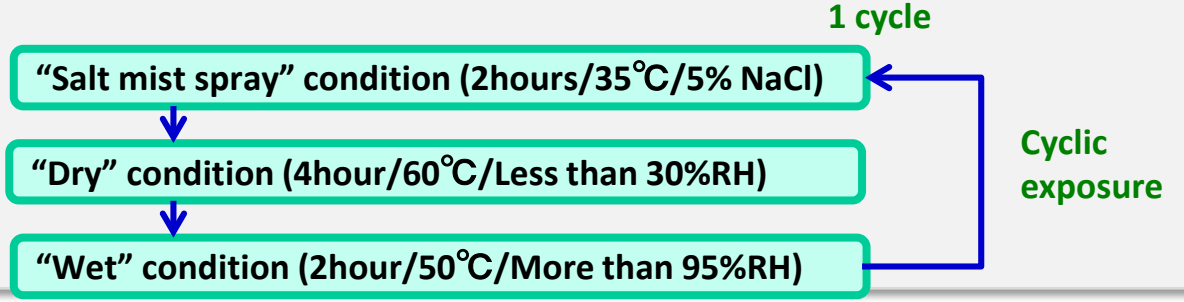


■ **Corrosion-resistant screws**

Prevention from fixation at maintenance. (e.g. Geomet®coarings)

■ **ISO14993 Compliant**

International Standard specifies test procedure of accelerated corrosion tests



Concept & Main Features

i-PRO IR PTZ cameras with Heavy Salt Damage Resistance performs under heavy salt air condition

Visibility

- View objects in dark condition with IR LED with new auto focus
- High powered 40x optical zoom / Intelligent zoom stabilization
- Dehumidification and defrosting with the new defroster
- intelligent Auto iA / 30 degree elevation angle / ClearSight coating

Data Compression

- H.265 compression with improved smart coding technology

Video Data Analytics

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

Reliability

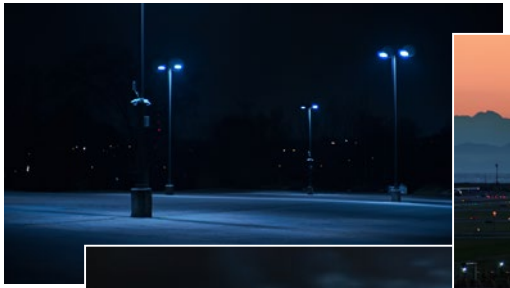
- Salt damage resistant / Vandal resistant / IP66 compliant / IK10

Data Security

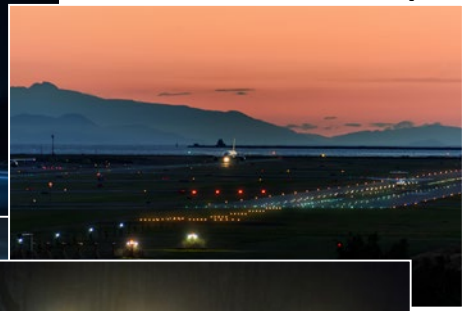
- Secure communication with Digicert certification

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

Parking lot

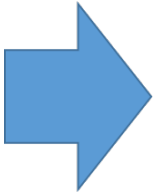


Airport



Lake

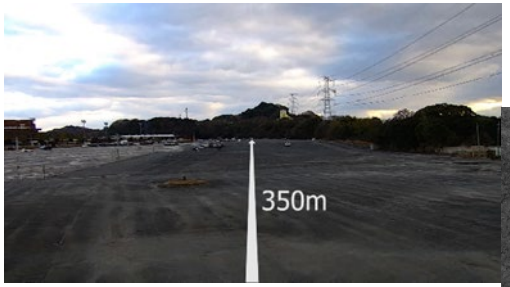
Park

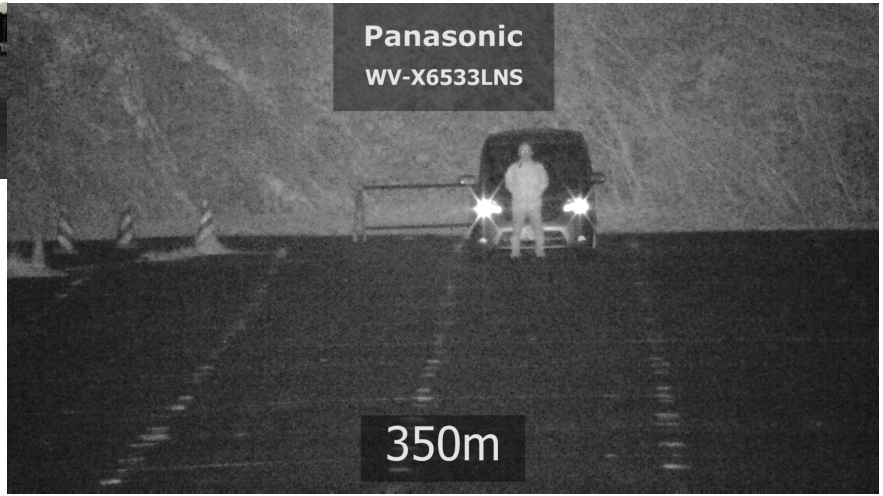


Built-in IR LED and high magnification optical zoom in new PTZ cameras to realize wide area surveillance at night

■ View objects in dark conditions

Enable to see an object at max.350m(approx.1150ft.)away with built-in IR-LED lighting even in a 0 lux environment.





i-PRO IR PTZ camera WV-X6533LNS

■ 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

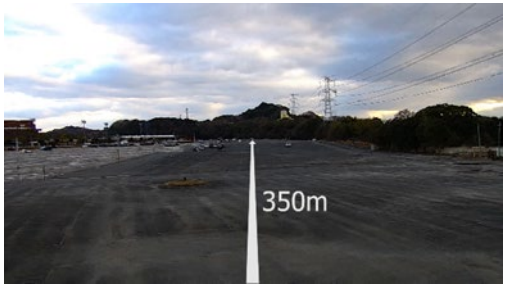
i-PRO IR PTZ camera WV-X6533LNS

New Auto Focus

Under visible light

■ High powered 40x optical zoom

40x optical zoom function enables to survey further,
and clearly see objects at long distances.



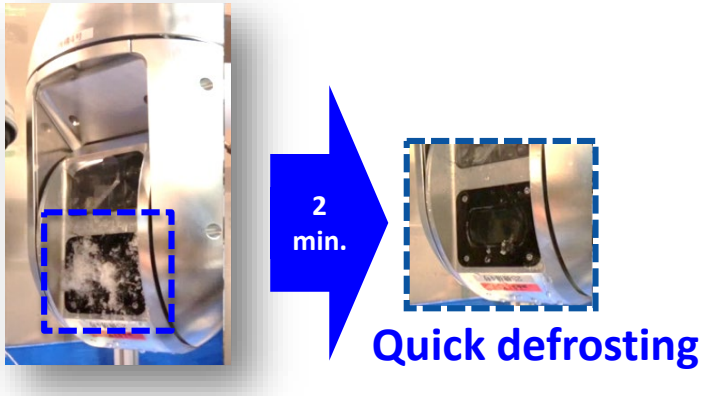
i-PRO IR PTZ camera
WV-X6533LNS

■ Intelligent zoom stabilization

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

■ Dehumidification and defrosting with the new defroster

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



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.

■ intelligent Auto (iA)

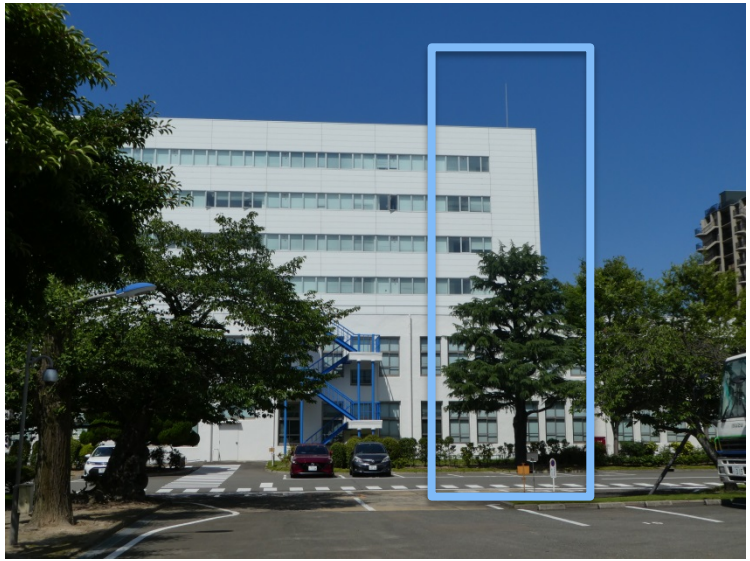
iA monitors scene dynamics and motion to adjust key camera settings automatically all in real-time, reducing distortion such as motion blur on moving objects.

iA OFF

iA ON

■ 30 degree elevation angle

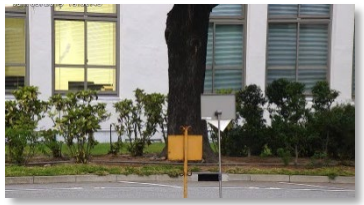
Enables to monitor dam release, landslide, iron tower and slope road
by using with 30 degrees elevation angle from low installation location.



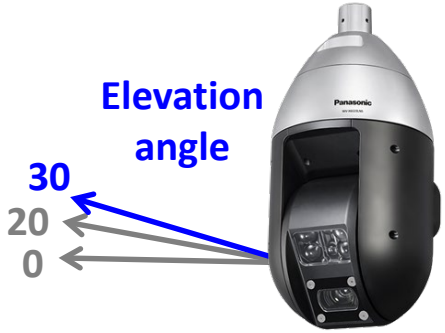
Smart phone camera image

30 degree

20 degree



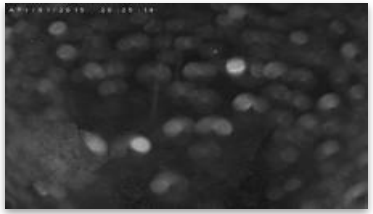
0 degree



■ 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

■ H.265 compression with smart coding technology

GOP control

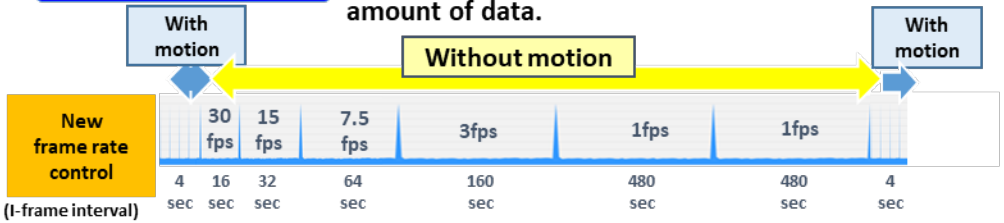
Reduces encoding data by using p-frame in place of i-frame when no motion is detected.

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

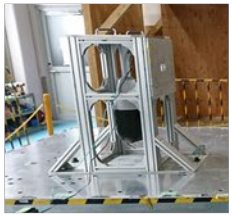
Achieve high endurance and long life usage under extreme conditions

Dustproof Test

High-Temperature Test

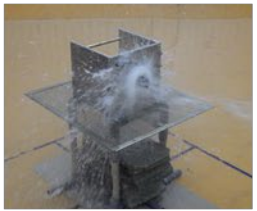
Pressure Test

Earthquake Test

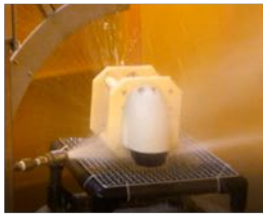


Waterproof Test

IP66



IP6K9K



Lifetime Test

Thunder Test

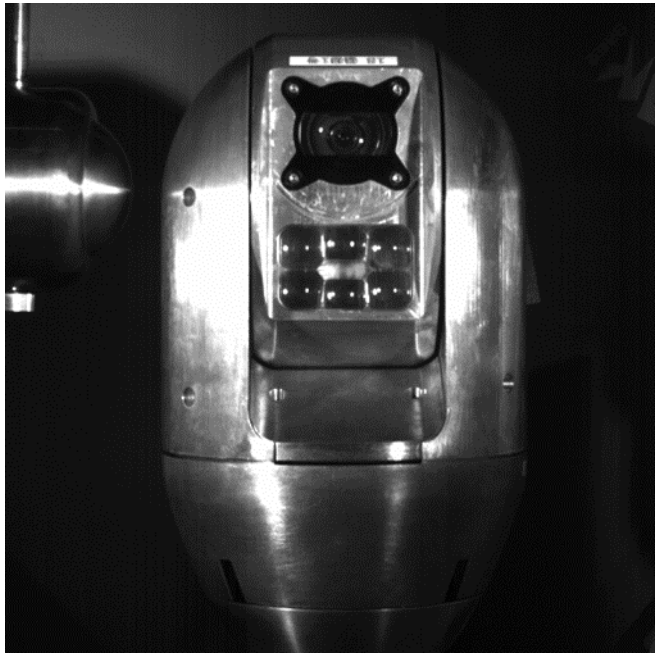
Static Electricity Test

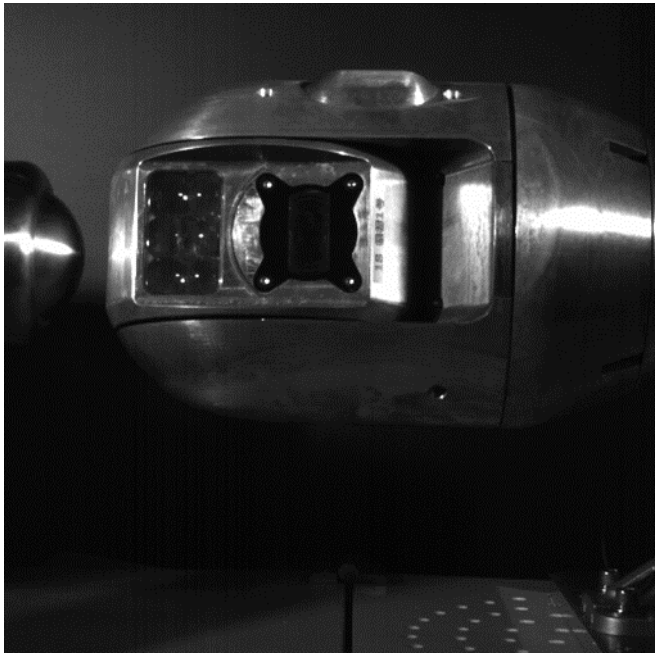
Drop Test

Box Shaking Test

Vibration Test

Vandal resistant (IK10) under challenging environments.





■ 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

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

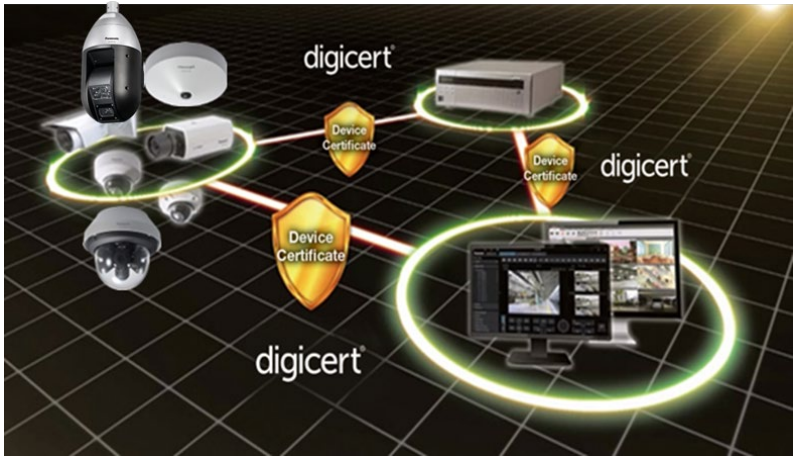
End-to-End Data Encryption

- 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

		WV-S6532LN	WV-S6532LNS	WV-X6533LN	WV-X6533LNS
Image sensor		1 / 2.8 type CMOS			
Zoom ratio		22x		40x	
Max. frame rate / Max. resolution		60 fps / 4:3 mode 2048 × 1536 (Used by super resolution techniques)			
Minimum Illumination *Shutter speed 1/30s	Color	0.015lx @F1.6, 0.001 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) – 66° (Wide)		1.9° (Tele) – 66° (Wide)	
	Vertical	2.0° (Tele) - 39° (Wide)		1.1° (Tele) - 39° (Wide)	
intelligent Auto / WDR / Smart coding		Yes / Super Dynamic (144dB) / Yes			
Adjusting Angle : PAN / TILT		360° endless / -30° to 210°			
Panning & Tilting speed : Manual, Preset		0.065° to 150°/s, 300°/s			
IR LED		100m(approx.330ft.) : AC24V/60WPoE/PoE+		350m(appox.1150 ft.) : AC24V/60WPoE /PoE+(150m)	
Day /Night function		IR cut filter ⇔ visible light cut filter			
Image stabilizer		Intelligent zoom stabilization (Electric Image Stabilization)			
Fiber Optic Media Converter Unit (Option)		Yes	-	Yes	-
ClearSight		Yes			
Salt-air Corrosion Resistant		-	Yes	-	Yes
Environmental		IP66, Type 4X(UL50E), NEMA 4X compliant, 50J (IEC60068-2-75 compliant), IK10			
Power Source		AC24V / PoE+ / Tested POE Injector (60W)			
Dimension (mm)		ø226 x 415 (H)			

Specifications – DORI (Detect, Observe, Recognize, Identify)

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

*This value does not indicate the performance of the camera

WV-X6533LNS

Resolution 1920 × 1080		Wide 66°		Tele 1.9°	
		Distance (m)	Distance (ft.)	Distance (m)	Distance (ft.)
Detect	25ppm / 8ft.	59.13	194.00	2315.74	7597.58
Observe	62.5ppm /19ft.	23.65	77.60	926.30	3039.03
Recognize	125ppm /38ft.	11.83	38.80	463.15	1519.52
Identify	250ppm / 76ft.	5.91	19.40	231.57	759.76

WV-S6532LNS

Resolution 1920 × 1080		Wide 66°		Tele 3.4°	
		Distance (m)	Distance (ft.)	Distance (m)	Distance (ft.)
Detect	25ppm / 8ft.	59.13	194.00	1293.83	4244.85
Observe	62.5ppm /19ft.	23.65	77.60	517.53	1697.94
Recognize	125ppm /38ft.	11.83	38.80	258.77	848.97
Identify	250ppm / 76ft.	5.91	19.40	129.38	424.49

***1 It is calculated with the camera installed horizontally.**

Optional Accessories - Optional brackets

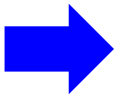
Salt-air corrosion resistant coating
(ISO14993 Compliant)

Outdoor IR PTZ
WV-X6533LNS / S6532LNS

+

Wall Mount Bracket
WV-Q122BS

Ceiling Mount Bracket
WV-Q121AS



i-PRO