

2023 CPRO SECURITY SOLUTIONS

AI

2023 CPRO SECURITY SOLUTIONS

VER. 2309



DEEP LEARNING BASED AI Camera



MULTI SENSOR



4K



JUNCTION



IR REFLECTION FREE



BUBBLE FREE



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Technological innovation based on 27 years of CCTV security experience

Since 2013, through the development of IP cameras equipped with Ambarella chips, we have lined up a lineup of intelligent cameras optimized for various situations, from special lines such as Multi Sensor, 4K, Fisheye, and PTZ to general lines. We are leading the global video security technology by launching an edge-based AI deep learning intelligent video analysis camera.



Global brand of CPRO North American sales company

CPRO has been a DW (Digital Watchdog) brand since 2008. We have built a solid sales channel in the North American market. With the global brand DW's end-to-end video security integrated solution, we are focusing on entering new global markets such as EMEA and Asia.

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AI CAMERA

Comprehensive line of cameras



Deep Learning Object Tracker

Designed for accurate detection and tracking of people, vehicles and key objects in challenging environments



ANPR & Vehicle Recognition

This technology enables efficient control by accurately extracting vehicle attributes such as manufacturer, model, color and vehicle type as well as detecting vehicle license plates.



Deep Learning People Tracker

Designed to track people in situations where the camera field of view is relatively close. The Deep Learning People Tracker is providing the location of a person in the field of view.



Face Recognition

This technology not only sends an alarm when it recognizes a face that matches a registered person, but it also enables you to expand your business by utilizing the extracted information such as age and gender.

Ruleset

Zones and rules	Tamper Detection	Counting	Counting Lines	Intrusion Detection	Appear Filter	Disappear Filter	Stopped Filter
Enter Filter	Exit Filter	Dwell Filter	Direction Filter	Tailgating	Logical Rules	Object Color	Meta Data

ANPR

License Plate Recognition

K50 1234

MMCR

Recognize Make, Brand, Color and Vehicle Type

Hyundai	Grandeur
White	Car

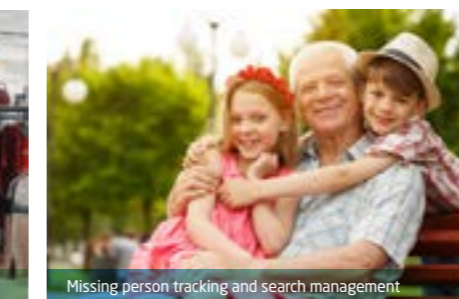
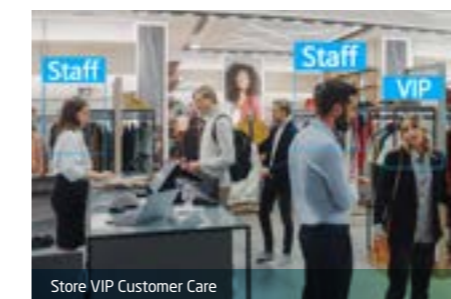
ANPR & Vehicle Recognition

Based on plate recognition, manufacturer, brand, color, and other information of the car it is possible to manage the parking efficiently and illegal parking enforcement.



Face Recognition

To create the metadata with assigned event and property values when face is recognized in-real time video. This metadata could be used for store customer management and missing person tracking search management.



Name : Andrew
Gender : male
Age : 25 - 35
Deny List

Name : 7
Gender : male
Age : 30 - 40
NEW

Name : Arny
Gender : Female
Age : 27 - 37
VIP

Face detection and recognition


best shot

privacy protection

FRVT

NAMING RULE

Example : **NVM8-710-R**



N	VM8	7	10	R
System Network	Housing Multi sensor	Chip Series7	Resolution 10M	Function IR

Housing

 VM9 4 Sensor Surround VF IR Dome (IRFD) SURROUND III	 SF1 Fisheye IR Bullet EYEVIEW	 VD11 IR Turret GENIUS	 VD7 Mini IR Dome SPACE V
 VM5 4 Sensor Surround VF Dome SURROUND II	 VF13 Fisheye IR Dome FISHEYE II	 VD2 IR Turret TURRET II	 VD6 Mini IR Dome (IRFD) SPACE VI
 VM6 4 Sensor Panorama Dome PREDATOR II	 PX5 30X PTZ IR (IRFD) ENDLESS III	 VD3 IR Turret TURRET III	 VP3 Mini IR Indoor Dome SPACE VII
 VM7 2 Sensor IR Dome TWINS	 PX3 Repositioning 3X PTZ ENDLESS	 NK7 Junction Box IR Dome (IRFD) JUNCTION DOME	 BT8 Junction Box IR Bullet JUNCTION BULLET
 VM8 2 Sensor mini IR Dome TWINS II	 ST11 Door Jamb PINHOLE III	 VD15 VF IR Dome SPACE VII	 BT7 VF IR Bullet DOLCE III
 BM3 2 Sensor Thermal IR Bullet DUAL THERMAL	 ST10 Height Strip PINHOLE II	 VD10 Flat IR Dome Dome SPACE VIII	 BT6 VF IR Bullet FIESTO
 BM8 2 Sensor Junction Box IR Bullet Dual Junction BULLET	 ST9 Remote Head PINHOLE	 VD13 VF IR Dome SPACE IX	 BH1 Thermal mini Bullet FEVER

System

N	Network
C	Coaxial Analog
D	Coaxial Digital
W	Wi-Fi
M	Miscellaneous

Housing

- Dome		- Bullet	
VM	Multi sensor	BM	Multi sensor
VF	Fisheye	BH	Thermal
NK	Junction VD	BT	Tool
VD	Outdoor	BI	Fixed
VP	Indoor		
- PTZ		- Box	
PX	Zoom	CB	Box
- Special		- NVR	
ST	Miscellaneous	NV	NVR
SF	Fisheye		

Chip

0	Miscellaneous
Z	Novatek
1	Series 1
2	Series 2
3	Series 3
4	Series 4
5	Series 5
6	Series 6
7	Series 7
7-L	Series 7
8	Series 8
8-H	Series 8

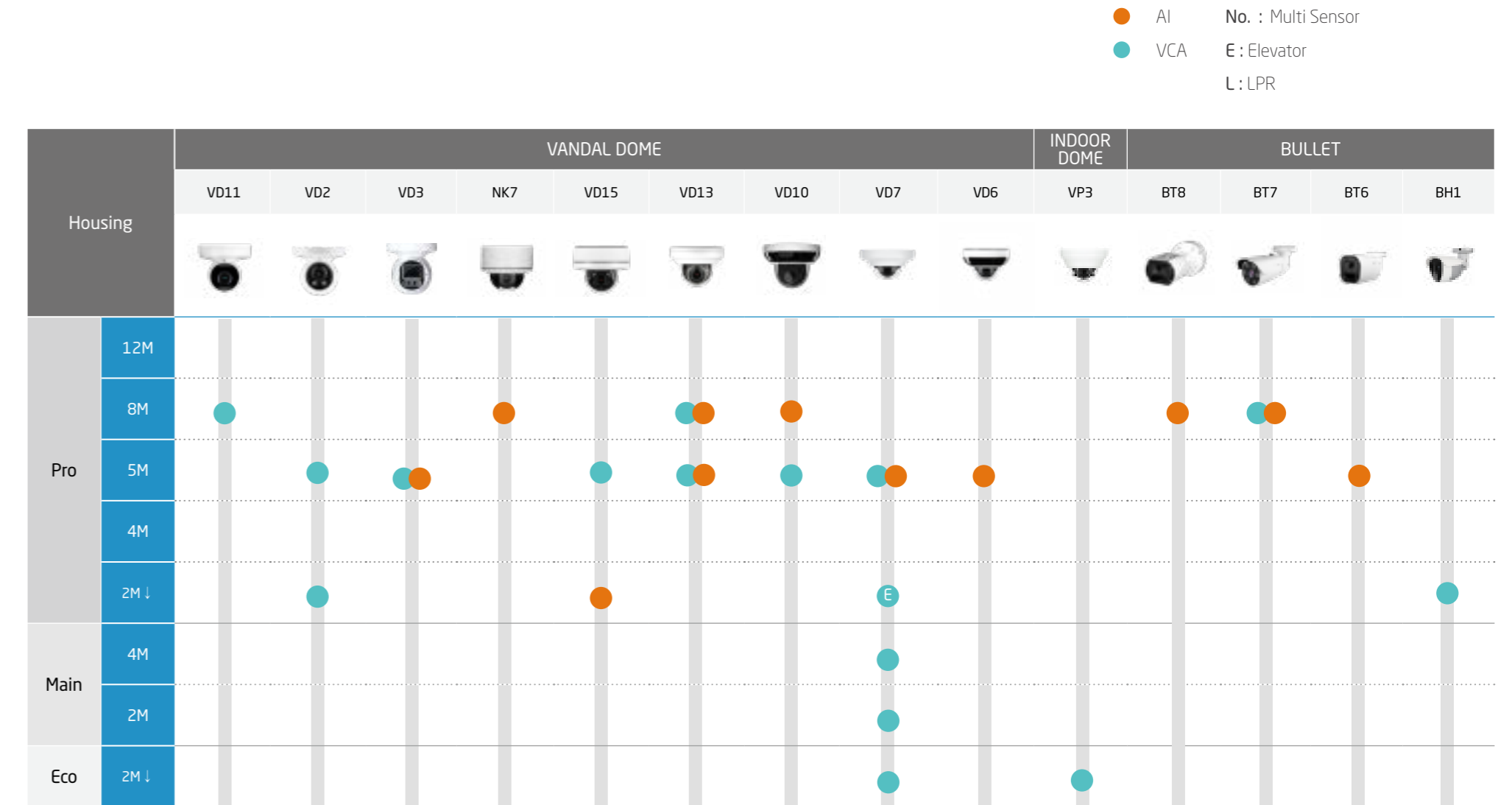
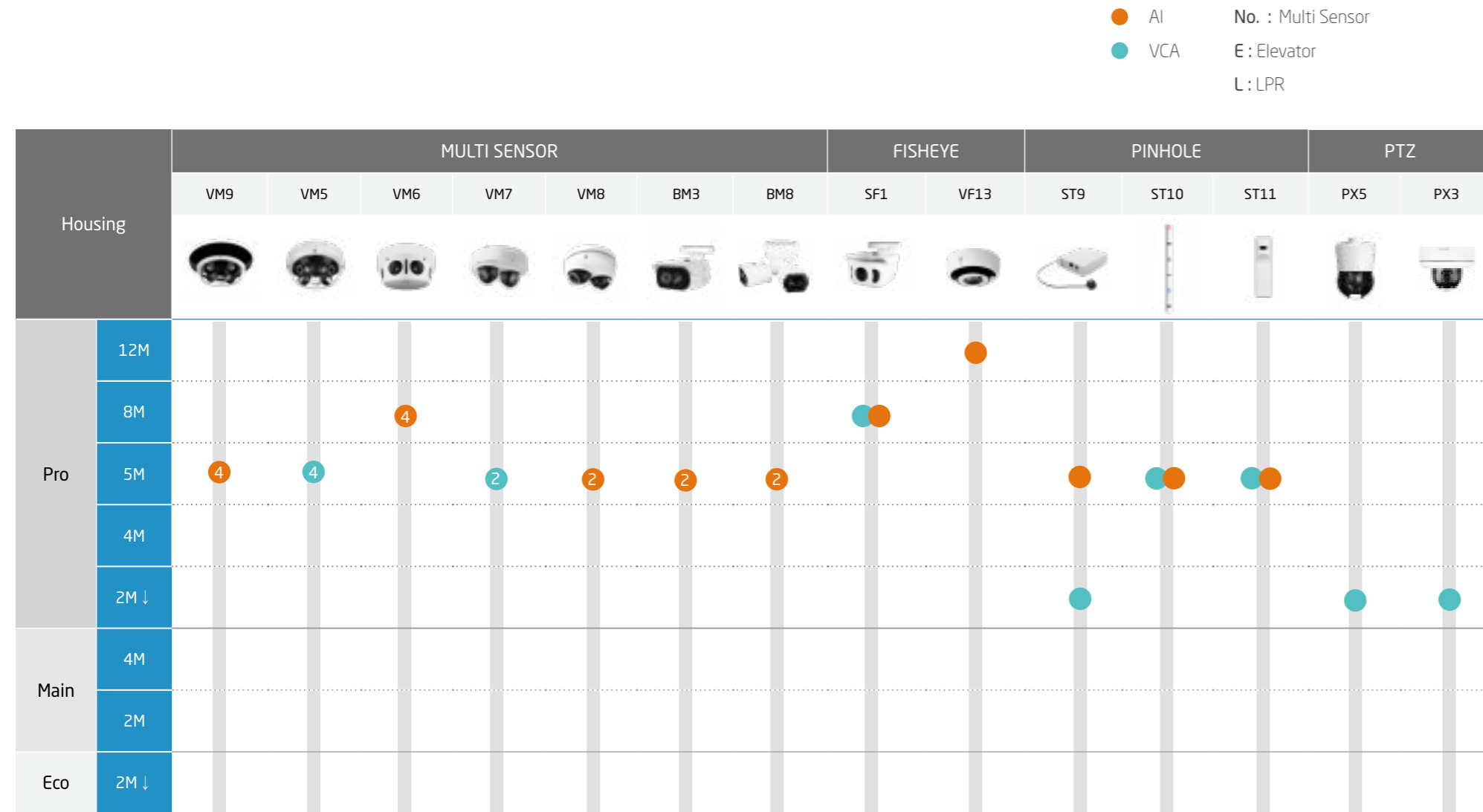
Resolution

0	1MP ↓
2	2MP
3	3MP
4	4MP
5	5MP
6	6MP
8	8MP
10	10MP
12	12MP
16	16MP
20	20MP
21	21MP
32	32MP

Function

R	IR
A	Alarm Siren
E	Elevator
F	Fixed Lens
L	LPR
S	Special
W	White LED
Z	Zoom
H	HDMI
T	Thermal

PRODUCT LINE UP



TOTAL 20MP 4 SENSORS MFZ SURROUND IR DOME



NVM9-720-R

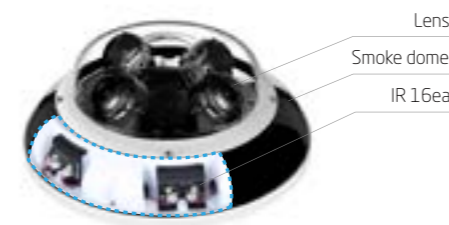
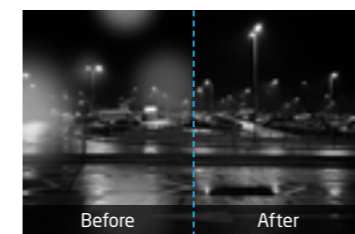


5MP 4CH
TOTAL
20MP



Flexible Sensor Arrangement

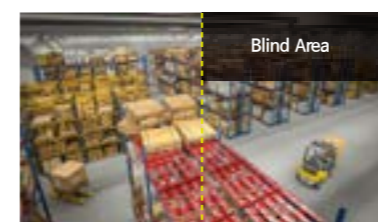
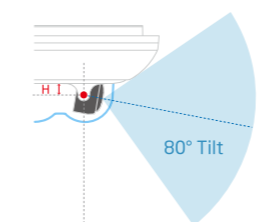
Easy to arrange 4 Magnetic Sensors through the Track. You can get Vertical Top View through Center Position, and 180°, 270°, or 360° View of video.



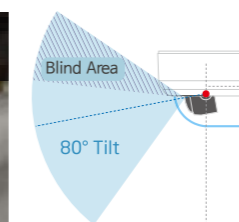
Improving diffused reflection at night by separating lens and IR structure

A total of 16 IRs are used to provide clear image quality even at night. The IR and lens separated design solved the issue of diffuse reflection.

Improved bubble



Existing bubble



Use of an aspheric hemispherical dome to minimize Blind area

By using an aspherical hemispherical dome, the Blind area is minimized.

SURROUND

AI



	Total 20MP MFZ Surround IR Dome NVM9-720-R	Total 20MP MFZ Surround Dome NVM5-520
Image Device	1/2.8" 5.69M CMOS x 4ch	1/2.8" 5.69M CMOS x 4ch
Total Pixels	2704(H) x 2104(V) x 4ch	2704(H) x 2104(V) x 4ch
Focal Length	2.8~8.0mm, F1.6 / Auto	2.8~8.0mm, F1.6, Auto
MIN.Illumination	Color : 0.1Lux / BW : 0.1Lux with IR	Color : 0.1Lux / BW : 0.05Lux with IR
Horizontal Angle	93°~51°	93°~51°
IR	H 16 IR	Non-IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vms, 3K ohm] / 1Line	1 Line[1.0Vms, 3K ohm] / 1Line
Alarm In / Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC /SDXC	Micro SD / SDHC /SDXC
Power	DC 12V PoE IEEE 802.3bt	DC 12V PoE IEEE 802.3bt
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IP67, IK10	FCC, CE, ROHS, UL, IP67, IK10
Dimensions (W x H)	280.5mm x 126.2mm	210mm x 92mm
Weight	3.5Kg	1.9Kg
Material	Aluminum	Aluminum

TOTAL 32MP 4 SENSORS PANORAMIC DOME



NVM6-732

PREDATOR

AI



32MP Panorama Dome
NVM6-732

Image Device	1/1.8" 8.48M CMOS x 4ch
Total Pixels	3856 (H) x 2200 (V)
Focal Length	9.05mm, F2.6
MIN.Illumination	Color : 0.13Lux / BW : 0.007Lux
Horizontal Angle	Over 180°
IR	No
Day & Night	TDN (True Day & Night)
WDR	WDR(2x)
DNR	3D-DNR
Video Compression	H.264, H.265, MJPEG
Audio In / Out	1Line[1.0Vms, 3K ohm] / 1 Line
Alarm In / Out	1Line in/1Line out
Video Output	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card
Edge Storage	SD / SDHC / SDXC(x4)
Power	DC12V PoE IEEE 802.3bt
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67
Dimensions (W x H)	210mm x 131mm
Weight	2.7kg
Material	Aluminum



Spring Type Tilt Bracket

Total 32MP Super Sensitive Panoramic Camera

This camera implements the 32MP resolution using the 4ea of high sensitivity 8MP CMOS sensors. It can monitor the various areas intensively at the same time while recording the wide range more than 180 degree with UHD.

Efficient Multiple Spot D-Zoom



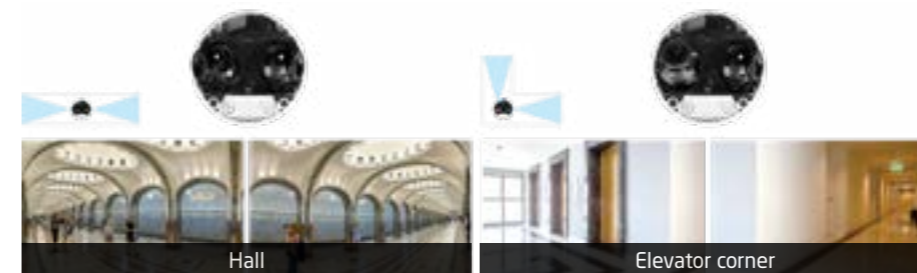
TOTAL 10MP 2 SENSORS DUAL mini / MFZ IR DOME



NVM8-710-R



5MP 2CH
TOTAL
10MP



Monitoring in two directions with only one camera

The lens angle of the dual camera can be adjusted individually to suit the installation environment and the desired direction. It is highly efficient to install and operate as it can take two directions at the same time with one camera, and can be applied to long corridors, elevator corners, shopping malls and narrow spaces.



Flexible sensors arrangement

You can freely adjust the pan, tilt, and rotation angle of each lens module to suit the desired shooting area.



Compact size and easy installation

It has a small and simple design that is perfect not only outdoors but also indoors, so it is easy to install and maintain using existing LAN cables without additional cable using.

TWINS

AI



Total 10MP
Dual mini IR Dome
NVM8-710-R (2.8 | 4.0 | 6.0 | 8.0mm)

Total 10MP MFZ
Dual IR Dome
NVM7-510-R

Image Device	1/2.8" 5.69M CMOS x 2ch	1/2.8" 5.69M 5M CMOS x 2ch
Total Pixels	2704(H) x 2104(V) x 2ch	2704(H) x 2104(V) x 2ch
Focal Length	2.8mm(F1.8), 4.0, 6.0, 8.0mm(F2.0)/Auto	2.7~13.5mm, F1.4 / P-IRIS
MIN.Illumination	Color : 0.13Lux / BW : 0Lux with IR etc, 0.16Lux	Color : 0.08Lux / BW : 0Lux with IR
Horizontal Angle	102.4° / 82.3° / 51.9° / 37.8°	96°~31°
IR	H 2 IR + H 2 IR	H 2 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	Mic/1 Line	1 Line[1.0Vrms, 3K ohm] / 1Line
Alarm In / Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card
Edge Stora	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3at
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, UL, IP67, IK10
Dimensions (W x H)	139mm x 79.5mm	210mm x 105.3mm
Weight	0.68Kg	2.1Kg
Material	Aluminum	Aluminum

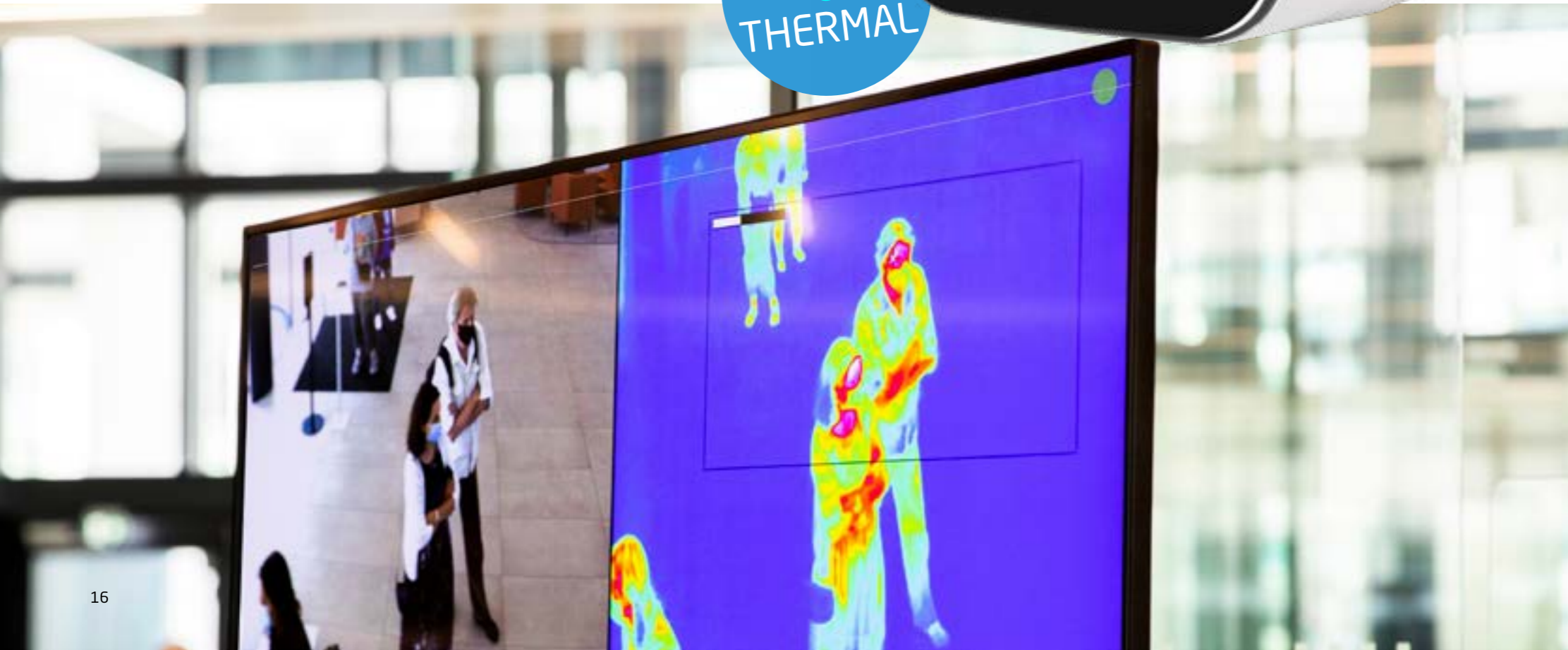
5MP / THERMAL DUAL IR BULLET



5MP & THERMAL



NBM3-75-RT



Simultaneous support for visible(5MP) / thermal(QGVA) images

Dual thermal AI camera supports both visible(5MP) and thermal(QGVA) videos. Visible and thermal images that can clearly identify the detected objects enable accurate detection and temperature measurement of the objects. Therefore, it guarantees a high detection rate through thermal imaging even in environments where it is difficult to detect only with visible light imaging.



Reliable Intelligent Thermal Imaging Camera

It can effectively detect objects by mounting an image analysis engine. By eliminating light interference, the detection accuracy of the image analysis engine can be improved. It maximizes visibility of objects at long distances, enabling highly reliable intelligent monitoring and improving detection capabilities.



High security due to accurate object detection of thermal imaging cameras

It is a reliable surveillance camera that prevents error detection of human-shaped objects and adds heat detection function. By using thermal and visible images together, intuitive results and temperatures can be checked, enabling accurate analysis and detection.

DUAL THERMAL

AI



5MP Thermal IR Bullet
NBM3-75-RT

Image Device	5.69M / 76.8K
Total Pixels	2704(H) x 2104(V) / 320(H) x 240(V)
Focal Length	4.0mm+4.0mm, F2.0+F1.0 / Auto
MIN. Illumination	Color : 0.16Lux, BW : 0Lux with IR
Horizontal Angle	82.3° / 56°
IR	H 2 IR
Day & Night	TDN (True Day & Night)
WDR	WDR(2x)
DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vrms, 3K ohm] / 1Line
Alarm In / Out	1 Line / 1 Line
Video Output	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC /SDXC
Power	DC 12V PoE IEEE 802.3af
Operating Temp	-40°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IP66
Dimensions (W x H)	242.3mm X 96.7mm
Weight	0.98kg
Material	Aluminum

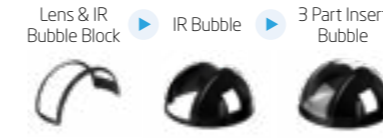
MULTI SENSOR

4K MFZ JUNCTION DOME / BULLET



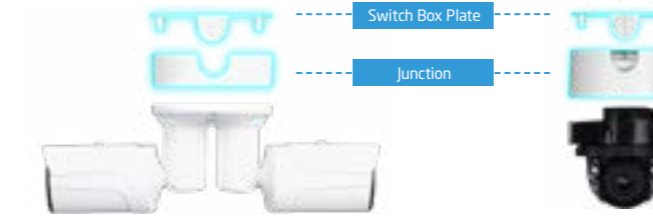
NBM8-710-R

NNK7-78-R



3 Part Insert Bubble free from IR diffused reflection at night

The normal bubble has the light reflection on the lens by being reflected from the inside surface of the bubble CPRO's 3 part insert bubble has a block part blocking IR light from entering the lens so the light reflection has decreased dramatically.



All in one junction

This camera includes switch box plate and junction for switch box that no need for additional purchase and does not impact on the interior as it is custom designed.



Easy and quick installation

NNK7's Magnets are attached to the junction and under the board, which can be installed easily and quickly. And NBT8's 3axis can be adjusted with only 1 screw

JUNCTION



4K MFZ Junction IR Dome
NNK7-78-R

4K MFZ Junction IR Bullet
NBT8-78-R

Total 10MP MFZ Junction IR Bullet
NBM8-710-R

	4K MFZ Junction IR Dome NNK7-78-R	4K MFZ Junction IR Bullet NBT8-78-R	Total 10MP MFZ Junction IR Bullet NBM8-710-R
Image Device	1/2.8" 8.0M 8M CMOS	1/2.8" 8.0M 8M CMOS	1/2.8" 5.17M CMOS
Total Pixels	3864(H) x 2228(V)	3840(H) x 2228(V)	2608 (H) x 1984 (V)
Focal Length	2.7mm ~ 13.5mm, F1.4 / P-IRIS	2.7mm ~ 13.5mm, F1.4 / P-IRIS	2.7~13.5mm, F1.4 / P - IRIS
MIN.Illumination	Color : 0.09Lux / BW : 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR	Color : 0.08Lux / BW : 0Lux with IR
Horizontal Angle	90.3° ~ 33.1°	90.3° ~ 33.1°	98° ~ 32°
IR	H 4 IR	H 4 IR	H 4 IR + H 4 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	Mic/1 Line	Mic/1 Line	Mic/Speaker
Alarm In / Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail
Edge Storage	Micro SD / SDHC /SDXC	Micro SD / SDHC /SDXC	Micro SD / SDHC /SDXC
Power	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3af
Operating Temp	-40°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	146.0mm x 130mm	289mm x 147mm	325.9mm x 171.1mm
Weight	1.42Kg	2.12Kg	3.2kg
Material	Aluminum	Aluminum	Aluminum

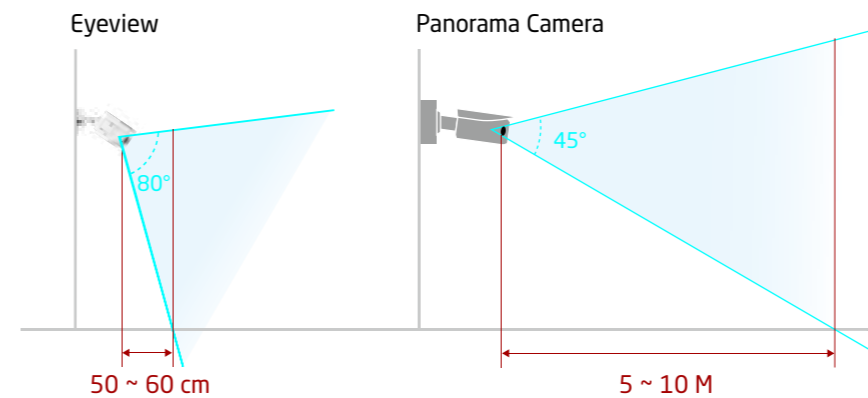
4K 1 SENSOR PANORAMIC IR BULLET



4K

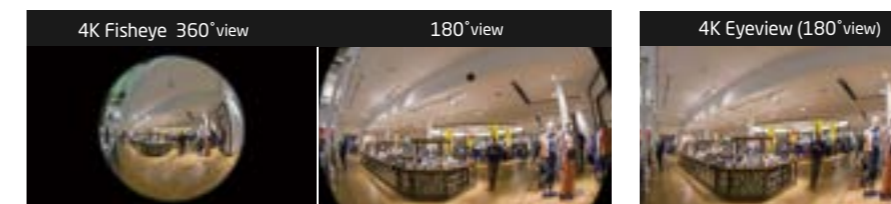


NSF1-78-RS



Suitable for indoors installation by a focal length of at least 50 to 60cm

Compared to panoramic cameras with a focal length of at least 5 to 10m, it's much easier to install in narrow corridors or buses with the near 50 to 60cm. Also, the compact size doesn't affect interior design when installed indoors, mounts by fitting is easy to install.



4K 180° Panoramic Eyeview

The images output from the 4K sensor supports panoramic views with minimum distortion similar to human vision compared to Fisheye's de-warping images.

External Control

You can control / access the Reset / 2nd Video Output / Micro SD Card from the outside.

EYEVIEW

AI



	4K Panorama IR Bullet NSF1-78-RS	4K Panorama IR Bullet NSF1-58-R
Image Device	1/1.8" 8.0. 8MM CMOS	1/1.8" 8.0. 8MM CMOS
Total Pixels	3856 (H) x 2200 (V)	3952 (H) x 2320 (V)
Focal Length	2.3mm, F2.8 / Auto	2.3mm, F2.8 / Auto
MIN.Illumination	Color : 0.15Lux / BW : 0Lux with IR	Color : 0.29Lux / BW : 0Lux with IR
Horizontal Angle	175°	175°
IR	H 4 IR	H 4 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vrms, 3K ohm] / 1Line	1 Line[1.0Vrms, 3K ohm] / 1Line
Alarm In / Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-Mail, Alarm Out, SD Card	FTP, E-Mail, Alarm Out, SD Card
Edge Storage	Micro SD / SDHC /SDXC	Micro SD / SDHC /SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	222.5mm x 96.7mm	222.5mm x 96.7mm
Weight	0.97Kg	0.97Kg
Material	Aluminum	Aluminum

12MP 360° FISHEYE IR DOME



4K
12MP

3 IR

High Power IR LEDs

To place IR LED behind the opaque dome to minimize the IR reflection at night.

NVF13-712-R



In-camera 360° wide view and various dewarping modes

Through the 12 MP high-resolution sensor and fisheye lens, you can view 360° high-resolution images, as well as remotely check various dewarping modes such as 180° panoramic zooming in on a specific area.



360° rotatable fisheye lens

Not only the 360° fisheye mode view, 180° panoramic mode and quartered mode are provided with S/W. It dewarps the view.

IP67 certified (dustproof & waterproof), IK10 (shockproof)

Superior environment protection with its IP66 rating. The device is protected against invasive moisture, dust and even liquids. This superb environment protection is achieved through meticulous sealing and extra protective engineering.

FISHEYE

AI



1.2M Fisheye IR Dome
NVF13-712-R

AI



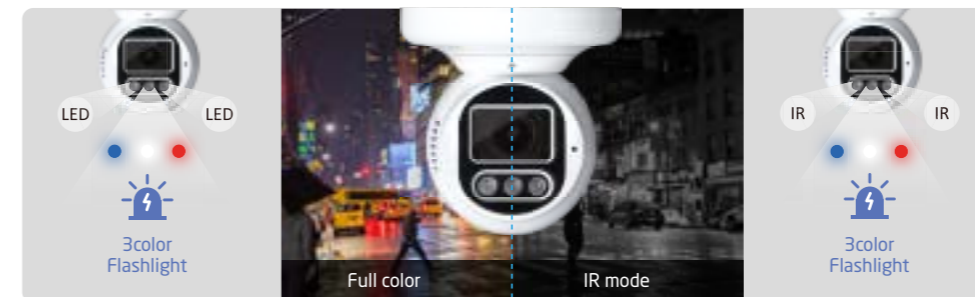
5MP Fisheye IR Dome
NVF13-75-R

Image Device	1/2.3" 12.93M CMOS	1/2.8" 5.69M CMOS
Total Pixels	4072 (H) x 3176 (V)	2704 (H) x 2104 (V)
Focal Length	1.5mm, F2.2 / Auto	1.19mm, F2.0 / Auto
MIN.Illumination	Color : 0.52Lux / BW : 0 Lux with IR	Color : 0.16Lux / BW : 0 Lux with IR
Horizontal Angle	185°	185°
IR	H 3 IR	H 3 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	Yes	Yes
DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	Mic / 1Line	Mic / 1Line
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E - mail, Alarm Out, SD card	FTP, E - mail, Alarm Out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af Class3	DC 12V PoE IEEE 802.3af Class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL, IP67
Dimensions (W x H)	125mm x 58mm	125mm x 58mm
Weight	0.55kg	0.55kg
Material	Aluminum	Aluminum

FULL COLOR / IR FLASHLIGHT & SIREN TURRET

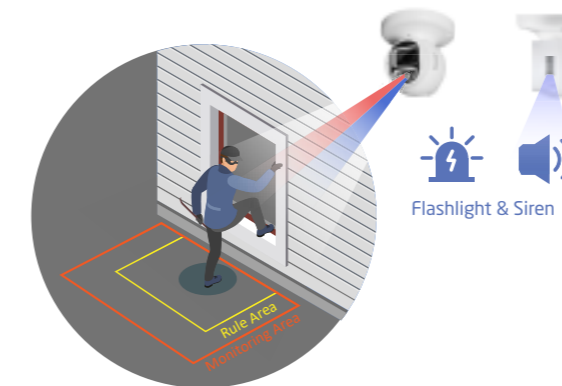


Full color
Flashlight
& Siren



Non-diffused camera implement video as Full Color Day & Night

This camera is equipped with the highly sensitive sensor, and high-end lens of F1.0 that implement the video lightly at the dark environment.



Light alarm prevents intrusion

When a target is detected in the monitoring area or enters the rule area, sirens and alarms are activated. You can specify a watch area so that you can use the light function only when necessary.

Adjusting Lenses with Free Dome cover

It is convenient to adjust the lens without disassembling the dome cover.

TURRET



	AI SMP Full Color Siren Turret NVD3-75-WA	AI SMP Flashlight Siren Turret NVD3-75-RA
Image Device	1/2.8" 5.69M CMOS	1/2.8" 5.69M CMOS
Total Pixels	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)
Focal Length	2.7~12mm, F1.3 / P-IRIS	2.7~mm, F1.4 / P-IRIS
MIN.Illumination	Color : 0.07Lux / BW : 0 Lux with White	Color : 0.08Lux / BW : 0 Lux with IR
Horizontal Angle	89.9° ~ 31.5°	98.3° ~ 31.6°
IR	H 2 W (H1RGB)	H 2 I R (H1RGB)
Day & Night	No	TDN (True Day & Night)
WDR	WDR(2x)	WDR(2x)
DNR	3D-DNR	3D-DNR
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Audio In / Out	Mic/ Speaker	Mic/ Speaker
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	No	No
Event Notification	FTP, E-Mail, Alarm Out, SD Card, Siren, Flashlight	FTP, E-Mail, Alarm Out, SD Card, Siren, Flashlight
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power	DC 12V PoE IEEE 802.3af	DC 12V PoE IEEE 802.3af
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	125mm x 121.7mm	125mm x 121.7mm
Weight	0.88Kg	0.88Kg
Material	Aluminum	Aluminum

HEIGHT STRIP/ DOOR JAMB PINHOLE



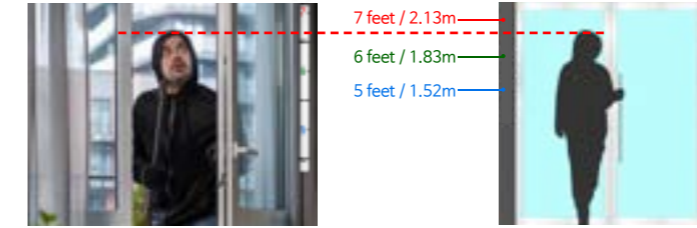
Face /
Height
Detect



Name : David
Gender : Male
Age : 30 -32
Height : 6.3 ft
Team Leader

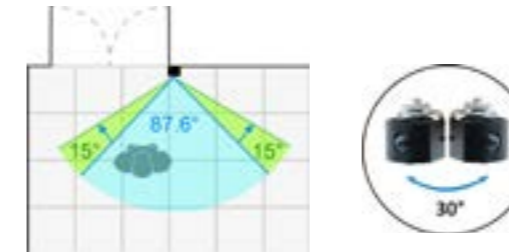


NST10-75L



Convenient Height checking _ NST10

Thanks to indicated number at the 4,5,6 feet height installed CCTV camera towards the door and witness could check height of the invader conveniently. For this reason, this camera could be used in various channels including convenience store, retail ship, bank, hotel.



The adjustable 5MP pinhole lens as $\pm 15^\circ$ each

Through the adjustable 5MP pinhole lens as left and right $\pm 15^\circ$ each it could provide not only the vivid video also optimal viewing angles even when installed in large sized doors.



Eye level installation to Exact face recognition

This camera it designated to be installed at the frame of a building entrance at an adult's eye-level. Unlike ceiling-mounted cameras, even if there's are some people with hoodie or hat face could be shoot at the front.

PINHOLE



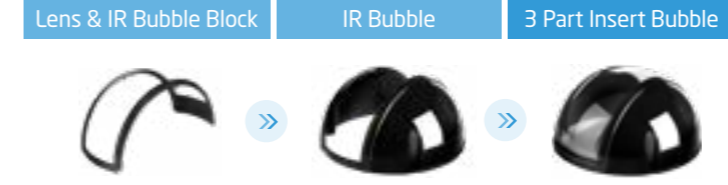
SMP Height Indicator Strip Pinhole NST10-75L SMP Door Jamb Pinhole NST11-75L ZMP Remote Head Pinhole NST9-52

Image Device	1/2.8" 5.17M CMOS	1/2.8" 5.17M CMOS	1/2.8" 2.13M CMOS
Total Pixels	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)	1945 (H) x 1109 (V)
Focal Length	3.7mm, F2.5	3.7mm, F2.5	2.8mm, F2.2 / 3.7mm, F2.5
MIN.Illumination	0.13Lux	0.13Lux	COLOR: 0.065Lux, / 0.094Lux
Horizontal Angle	88°	88°	106° / 84°
IR	No	No	Non-IR
Day & Night	No	No	No
WDR	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D-DNR	3D-DNR	3D - DNR
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.265, H.264, MJPEG
Audio In / Out	No	No	No
Alarm In / Out	No	No	1 Line In/1 Line Out
Video Output	No	No	No
Event Notification	FTP, E-Mail	FTP, E-Mail	-20°C ~ 50°C
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC	FCC, CE, ROHS, IP66
Power	DC 12V / AC 24V PoE IEEE 802.3af calss 2	DC 12V / AC 24V PoE IEEE 802.3af calss 2	DC12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS, UL
Dimensions (W x H)	51.5mm X 860mm	50.3mm X 190mm	107mm x 36mm
Weight	0.7kg	0.4g	0.42kg
Material	Aluminum	Aluminum	Plastic

30X PTZ IR DOME

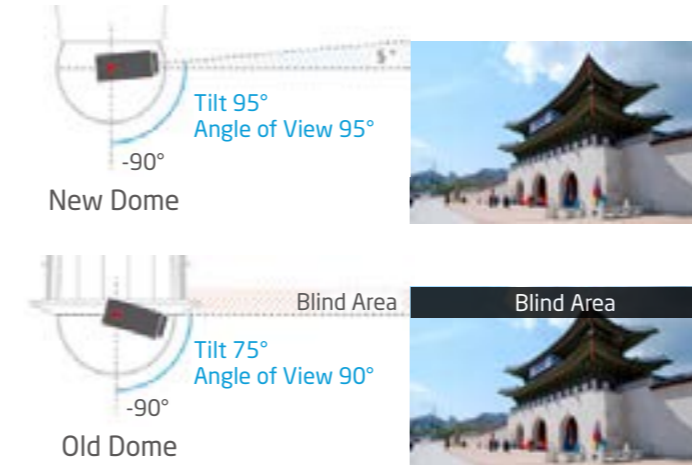


3 PART INSERT BUBBLE



3 Part Insert Bubble

The normal bubble has the IR light reflection on the lens by being reflected from the inside surface of the bubble. CPRO's 3 part insert bubble has a block blocking light from entering the lens so the reflection has decreased dramatically.



95° tilt supportable at the PTZ

To overcome tilt angle limitation from the normal spherical bubble, the improved bubble can tilt up to 95° without any image distortions.

More compact than anything else

It is compact and light compared to the same performance PTZ camera in a small simple design that can be installed in/outdoor.

ENDLESS



	2MP 30X IR PTZ NPX5-52-R	2MP 3X IR PTZ NPX3-52
Image Device	1/3" 2.55M CMOS	1/2.8" 2.1M CMOS
Total Pixels	1981 (H) x 1288 (V)	1945 (H) x 1109 (V)
Focal Length	4.3 ~ 129mm, F1.6 ~ F4.7 / Auto	2.8 ~ 8mm, F1.6 / P-IRIS
MIN.Illumination	Color : 0.05Lux / BW : 0 Lux IR	Color : 0.03Lux / BW : 0.006
Horizontal Angle	65.1° ~ 2.34°	114.7° ~ 59.3°
IR	H 6 IR	Non-IR
Day & Night	TDN(True Day & Night)	TDN(True Day & Night)
WDR	WDR	WDR (2x)
DNR	3D-DNR	3D-DNR
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Audio In / Out	1 Line[1.0Vms, 3K ohm] / 1Line	1 Line[1.0Vms, 3K ohm] / 1Line
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-Mail, Alarm Out, SD Card	FTP, E-Mail, Alarm Out, SD Card
Edge Storage	Micro SD, Micro SDHC, Micro SDXC	Micro SD, Micro SDHC, Micro SDXC
Power	DC 24V / AC 24V PoE IEEE 802.3bt	DC 12V PoE IEEE 802.3at
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP67
Dimensions (W x H)	150mm x 160mm	125mm x 116mm
Weight	2.8Kg	1Kg
Material	Aluminum	Aluminum

4K FLAT / 5MP mini IR DOME



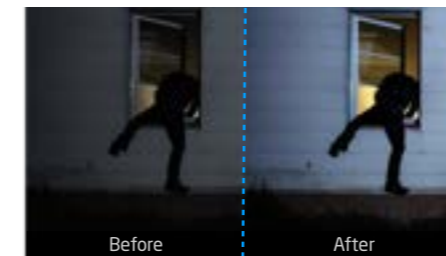
IR Reflection FREE



Block of night diffused reflection implement of lens and IR separation
Diffused reflection gets blocked completely thanks to IR and led separated design.



To minimize the area be covered by the angle of view
The tilting degree increases by 10°, to solve the covering angle of view problem.



Improved performance at night surveillance
Thanks to color video and IR sensitivity gets improved, it helps night surveillance improvement.

DOME



	AI 5MP mini IR Dome NVD6-75L-R	AI 4K IR Flat Dome NVD10-78-R	AI 4K IR Flat Dome NVD10-75L-R
Image Device	1/2.8" 5.17M CMOS	1/2.8" 8.6M 8M CMOS	1/2.8" 8.6M 8M CMOS
Total Pixels	2608 (H) x 1984 (V)	3864(H) x 2228(V)	3864(H) x 2228(V)
Focal Length	2.8mm, 4.0mm, 6.0mm, 8.0mm, F2.0	2.7mm ~ 13.5mm, F1.4 / P-IRIS	2.7~13.5mm, F1.4 / P - IRIS
MIN.Illumination	Color : 2.8mm : 0.06 Lux, etc : 0.08Lux, BW: 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR
Horizontal Angle	102.4° (2.8mm) / 82.3° (4mm) / 51.9° (6mm) / 7.8° (8mm)	90.3° ~ 33.1°	90.3° ~ 33.1°
IR	H 2 IR	H 2 IR	H 2 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR(2x)	WDR(2x)
DNR	3D - DNR	3D-DNR	3D-DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	Mic / 1Line	Mic/1 Line	Mic/1 Line
Alarm In / Out	1 Line In/1 Line Out	1 Line In / 1 Line Out	1 Line In / 1 Line Out
Video Output	No	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class 3	DC 12V PoE IEEE 802.3af class 3	DC 12V PoE IEEE 802.3af class 3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL, IP67
Dimensions (W x H)	105 x 71,7mm	125 x 100mm	125 x 100mm
Weight	0.44kg	TBD	TBD
Material	Aluminum	Aluminum	Aluminum

5MP MFZ / FIXED IR BULLET



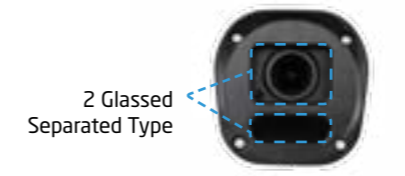
NBT6-75L-R

MFZ
or
FIXED



<MFZ LENS> <FIXED LENS>

Various Range Of Zoom Lens
To use the lens for various situations, lens can be chosen among MFZ/FIXED/ High magnification zoom. MFZ lenses can zoom up to 10X.



2 Glass Separated Type

Prevention Of Diffuse Refelction Equip With 2 glass Separated Structure
With stronger IR performance, it provides bright images over a long distance. At the same time, by separating the lens and IR, IR diffuse reflection significantly reduced at night.



Improvement Of Installation Convenience
Thanks to improvement of structure, installer can insert(replace) desipak, sd card and control reset and 2nd video output.



	5MP MFZ IR Bullet NBT6-75L-R	5MP MFZ IR Bullet NBT6-75L-RZ	5MP MFZ IR Bullet NBT6-75L-RF
Image Device	1/2.8" 5.17M CMOS	1/2.8" 5.17M CMOS	1/2.8" 5.17M CMOS
Total Pixels	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)
Focal Length	2.7~13.5mm, F1.4 / P - IRIS	5~50mm, F2.0, 6~22mm, F1.6 / P - IRIS	2.8mm (F1.6) , 4.0mm (F2.0)
MIN.Illumination	Color : 0.04Lux / BW : 0 Lux with IR	Color : 5~50mm : 0.08 Lux, 6~22mm : 0.05 Lux BW : 0 Lux with IR	Color : 2.8mm : 0.06 Lux, 4.0mm : 0.08Lux, BW: 0Lux
Horizontal Angle	98° ~ 32°	46° ~ 7°, 39° ~ 16°	102.4° (2.8mm) / 82.3° (4mm)
IR	H 3 IR	H 3 IR	H 3 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vrms, 3K ohm]/1 Line	1 Line[1.0Vrms, 3K ohm]/1 Line	1 Line[1.0Vrms, 3K ohm]/1 Line
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	197.5mm x 86mm	197.5mm x 86mm	197.5mm x 86mm
Weight	0.97kg	0.99kg	0.93kg
Material	Aluminum	Aluminum	Aluminum



R&D Center / Korea Factory



Best Quality
Continuous pursuit of the best image quality by video professionals with over 30 years of experience.



Support
QA maintains high quality through continuous education and support, and is responsible for customer impressions and quality.

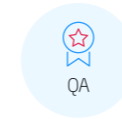


Good Design
It is easy and convenient to install, and has a sophisticated appearance.



Great Partnership
Inventory, production management, local RMA support and custom OEM projects.

Vietnam Factory



Quality Assurance
We maintain higher QA standards through intensive training and continuous support.



Clean Room / SMD
Produce products in a clean room and a batch production system that is capable of SMD and mechanism (Plastic/Die Casting) is established.



ERP / RMA
We have systematic inventory and production management through ERP, and local RMA support.



Know-How
We are committed to the best video quality by professionals with over 30 years of experience.



R&D CENTER _ South Korea

R&D center is focused on developing multi-sensor camera and AI camera technology, while the developed technology has being helped to introduce variety of specialized products in the market. In addition, the R&D center continuously researches and develops IP and coaxial cameras. With over 30 patents of in-house technology, we aggressively invest to develop new technology.

FACTORY _ South Korea

Korea Factory is committed to keeping higher standard of quality assurance with the production line. We maintain to have various quality tests to ensure our products are guaranteed for customers and support a customer service










CPRO VIETNAM _ Northern Hanoi

Starting with the first factory in Hanoi, Vietnam in 2013, the second factory was established in 2017.

VIETNAM FACTORY_ Production, Quality Control

The 2nd factory in Vietnam is capable of producing entire camera assembly and inspection process in a clean room, and a mass production system from parts to finished products is established with production facilities capable of SMD and mechanism process.

						
	4K Flat IR Dome NVD13-78-R	5MP Flat IR Dome NVD13-75-R	5MP MFZ IR Dome NVD13-Z5-R(fixed)	2MP HDMI Flat IR Dome NVD15-72-RH	5MP mini IR Dome NVD7-75-R	5MP MFZ IR Bullet NBT6-Z5-R(fixed)
Image Device	1/2.8" 8.6M CMOS	1/2.8" 5.69M CMOS	1/2.4" 5.17M CMOS	1/2.8" 2.1M CMOS	1/2.8" 5.69M CMOS	1/2.4" 5.17M CMOS
Total Pixels	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2608 (H) x 1984 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (V)	2592 (H) x 1944 (V) 2608 (H) x 1984 (V)
Focal Length	2.7~13.5mm, F1.4, P - IRIS	2.7~13.5mm, F1.4 / P-IRIS	2.8~12mm, F1.6 / P-IRIS 2.8 / 4.0mm, F1.6 / Auto	2.7~13.5mm, F1.4, P - IRIS	2.8mm(F1.8), 4.0, 6.0, 8.0mm(F2.0)	2.8 ~ 12mm, F1.6, P-IRIS 2.8mm 4.0mm, F1.6 / Auto
MIN. Illumination	Color : 0.09Lux / BW: 0Lux with IR	Color : 0.08Lux / BW: 0Lux with IR	Color : 0.06Lux(TBD) / BW: 0Lux with IR	Color : 0.02Lux / BW: 0Lux with IR	Color : 2.8mm Lux , etc : 0.16Lux, BW : 0Lux with IR	Color : 0.06Lux(TBD) / BW: 0Lux with IR Color : 2.8mm : 0.06Lux(TBD) / BW: 0Lux with IR
Horizontal Angle	90.3° ~ 33.1°	98.3° ~ 31.6°	106° ~ 35° / 105°	107.9° ~ 34.1°	102.4° (2.8mm) / 82.3° (4mm) 51.9° (6mm) / 7.8° (8mm)	106° ~ 35° / 105°
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	H 3 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	Mic / 1Line	Mic / 1Line	Mic / 1Line	1 Line[1.0Vms, 3K ohm] / 1 Line	Mic / 1Line	No
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	No	No	No
Event Notification	FTP, E - mail, Alarm Out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E - mail, Alarm Out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class 3	DC 12V / PoE IEEE 802.3af class3 DC 12V / PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-30°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-30°C ~ 50°C
Certification	FCC, CE, ROHS, IP66	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL	FCC, CE, ROHS, IP67	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL
Dimensions (W x H)	125mm x 92mm	125mm x 92mm	125mm x 92mm	125mm x 103mm	105mm x 60.7mm	197.5mm x 86mm
Weight	0.52kg	0.52kg	0.52kg / 0.51kg	0.58kg	0.36kg	0.97kg / 0.93kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

						
	4K IR Bullet NBT7-78-R	4K IR Bullet NBT7-78-RZ(622)	5MP IR Bullet NBT7-75-R	5MP IR Bullet NBT7-75-RZ	5MP IR Bullet NBT7-75-RL	5MP Full Color Siren Turret NVD3-75L-WA(RA)
Image Device	1/2.8" 8.0M CMOS	1/2.8" 8.6M CMOS	1/2.8" 5.69M CMOS	1/2.8" 5.69M CMOS	1/2.8" 5.69M CMOS	1/2.8" 5.17M CMOS
Total Pixels	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	2608 (H) x 1984 (V)
Focal Length	2.7~13.5mm, F1.4 / P-IRIS	6~22mm, F1.6 / P-IRIS	2.7~13.5mm, F1.4, P-IRIS	6~50mm, F1.6 / P - IRIS	6~50mm, F1.6 / P - IRIS	2.7~12mm, F1.3 / P - IRIS 2.7~13.5mm, F1.4 / P - IRIS
MIN. Illumination	Color : 0.09Lux / BW : 0Lux	Color : 0.09Lux / BW : 0Lux	Color : 0.08Lux / BW : 0Lux	Color : 0.1Lux / BW : 0 Lux	BW: 0Lux with IR	Color : 0.03Lux / 0Lux with White Color : 0.04Lux / 0Lux with IR
Horizontal Angle	90.3° ~ 33.1°	49.3° ~ 18.1°	98.3° ~ 31.6°	40.8° ~ 6.9°	40.8° ~ 6.9°	90° ~ 32° / 98° ~ 32°
IR	H 6 IR	H 6 IR	H 6 IR	H 6 IR	H 6 IR	H 2 IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	No / TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vms, 3K ohm] / 1 Line	1 Line[1.0Vms, 3K ohm] / 1 Line	1 Line[1.0Vms, 3K ohm] / 1 Line	1 Line[1.0Vms, 3K ohm]/1 Line	1 Line[1.0Vms, 3K ohm]/1 Line	Mic / Speaker
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	No
Event Notification	FTP, E-mail, Alarm out, SD card	FTP, E-mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E-Mail, Alarm Out, SD Card, Siren, Flashlight
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD, Micro SDHC, Micro SDXC
Power	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3af
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, UL, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	310mm x 97mm	310mm x 97mm	310mm x 97mm	310mm x 97mm	310mm x 97mm	125 x 121.7mm
Weight	1.2kg	1.2kg	1.2kg	1.2kg	1.2kg	0.88kg
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum



SMP Height Indicator Strip Pinhole NST10-65

5M Door Jamb Pinhole NST11-65

4K IR Turret NVD11-58-R

4K IR Turret NVD11-58-R_Fixed

5M IR Turret NVD2-55-R

5M IR Turret NVD2-55-R_Fixed

	SMP Height Indicator Strip Pinhole NST10-65	5M Door Jamb Pinhole NST11-65	4K IR Turret NVD11-58-R	4K IR Turret NVD11-58-R_Fixed	5M IR Turret NVD2-55-R	5M IR Turret NVD2-55-R_Fixed
Image Device	1/2.8" 5.69M CMOS	1/2.8" 5.69M CMOS	1/2.8" 8.6M CMOS	1/2.8" 8.6M CMOS	1/2.8" 5.69M CMOS	1/2.8" 5.69M CMOS
Total Pixels	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)
Focal Length	3.7mm, F2.5 / Fixed	3.7mm, F2.5 / Fixed	2.7~13.5mm, F1.4 / P - IRIS	2.8mm, 4.0mm, 6.0mm F2.0 / Auto	2.7~13.5mm, F1.4 / P - IRIS	2.8mm, F1.8 / 4.0mm, F2.0 / P - IRIS
MIN. Illumination	Color : 0.26Lux	Color : 0.26Lux	Color : 0.09Lux / Bw: 0Lux with IR	Color : 0.12Lux / Bw : 0Lux with IR	Color : 0.08Lux / Bw : 0Lux with IR	Color : 2.8mm : 0.13 Lux, etc : 0.16 Lux, Bw : 0Lux with IR
Horizontal Angle	87.6°	87.6°	90.3° ~ 33.1°	105.4° (2.8mm) / 85.8° (4mm) / 54.6° (6mm)	85° ~ 31°	103° (2.8mm) / 82° (4mm)
IR	Non-IR	Non-IR	H2IR	H2IR	H 2 IR	H 2 IR
Day & Night	S/W Day & Night	S/W Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	No	No	1 Line[1.0Vms, 3K ohm]/1 Line	1 Line[1.0Vms, 3K ohm]/1 Line	No	No
Alarm In / Out	No	No	1 Line In/1 Line Out	1 Line In/1 Line Out	No	No
Video Output	No	No	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	No	No
Event Notification	FTP, E - mail, SD card	FTP, E - mail, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail	FTP, E - mail
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	No	No
Power	DC 12V PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3af class2	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS	FCC, CE, ROHS	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP66	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67
Dimensions (W x H)	860mm x 51.5mm	190mm x 50.3mm	125mm x 112mm	125mm x 112mm	125mm x 122mm	125mm x 122mm
Weight	0.7kg	0.4kg	1kg	1kg	0.85kg	0.85kg
Material	Aluminum	Plastic	Aluminum	Aluminum	Aluminum	Aluminum



4K Flat IR Dome NVD13-58-R

4K Flat IR Dome NVD13-58-R_Fixed

4K Flat IR Dome NVD13-58-RS (Fixed)

4K IR Bullet NBT7-58-R

4K IR Bullet NBT7-58-RS

Thermal mini Bullet NBH1-50 (200 / 320)

	4K Flat IR Dome NVD13-58-R	4K Flat IR Dome NVD13-58-R_Fixed	4K Flat IR Dome NVD13-58-RS (Fixed)	4K IR Bullet NBT7-58-R	4K IR Bullet NBT7-58-RS	Thermal mini Bullet NBH1-50 (200 / 320)
Image Device	1/2.8" 8.6M CMOS	1/2.8" 8.6M CMOS	1/1.8" 9.17M CMOS	1/2" 8.6M CMOS	1/1.8" 8.6M CMOS	200 (H) X 150 (V) / 320 (H) X 240 (V)
Total Pixels	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	3952 (H) x 2320 (V)	3864 (H) x 2228 (V)	3952 (H) x 2320 (V)	200 (H) x 150 (V) / 320 (H) x 240 (V)
Focal Length	2.7~13.5mm / F1.4 / P-IRIS	2.7~13.5mm / F1.4 / P-IRIS (2.8mm, 4.0mm, 6.0mm F2.0 / P-IRIS)	3.6~10mm / F1.5 / P-IRIS (2.8mm, 4.0mm, 6.0mm F1.6 / Auto)	2.7~13.5mm, F1.4 / P-IRIS	3.6~10mm, F1.5 / P-IRIS	4.0mm, F1.0 / Fixed
MIN. Illumination	Color : 0.09Lux / Bw : 0Lux with IR	Color : 0.09Lux / Bw : 0Lux with IR (Color : 0.12Lux / Bw : 0Lux with IR)	Color : 0.09Lux / Bw : 0Lux with IR (Color : 0.12Lux / Bw : 0Lux with IR)	Color : 0.09Lux / Bw : 0Lux with IR	Color : 0.09Lux / Bw : 0Lux (F1.5)	-
Horizontal Angle	90.3° ~ 33.1°	90.3° ~ 33.1° (105.4° (2.8mm) / 85.8° (4mm) / 54.6° (6mm))	98.4° ~ 45.7° (106° (2.8mm) / 85.7° (4mm) / 54.6° (6mm))	90.3° ~ 33.1°	98.4°(W) ~ 45.7°(T)	35° / 56°
IR	H 2 IR	H 2 IR	H 2 IR	H 6 IR	H 6 IR	-
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	-
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	-
DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	3D - DNR	-
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vms, 3K ohm]/1 Line	1 Line[1.0Vms, 3K ohm]/1 Line	1 Line[1.0Vms, 3K ohm]/1 Line	1[1.0Vms, 3K ohm] / 1	1 Line[1.0Vms, 3K ohm] / 1 Line	1 Line[1.0Vms, 3K ohm]/1 Line
Alarm In / Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Line In/1 Line Out	1 Input / 1 Output	1 Line In / 1 Line Out	1 Line In/1 Line Out
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	CVBS 1.0V p-p	1 [CVBS 1.0V p-p (75Ω)]
Event Notification	FTP, E - mail, Alarm Out, SD card	FTP, E - mail, Alarm Out, SD card	FTP, E - mail, Alarm Out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card	FTP, E - mail, Alarm out, SD card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3af class3	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3at class4	DC 12V PoE IEEE 802.3af class3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C
Certification	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP67	FCC, CE, IP67	FCC, CE, ROHS, IP67	FCC, CE, ROHS, IP66
Dimensions (W x H)	125mm x 92mm	125mm x 92mm	125 x 92mm	310mm x 97mm	310mm x 97mm	210mm x 74mm
Weight	0.52kg	0.52kg	0.52kg (0.51kg)	1.2kg	1.2kg	0.61kg
Material	Aluminum	Aluminum		Aluminum	Aluminum	Aluminum

DW SPECTRUM

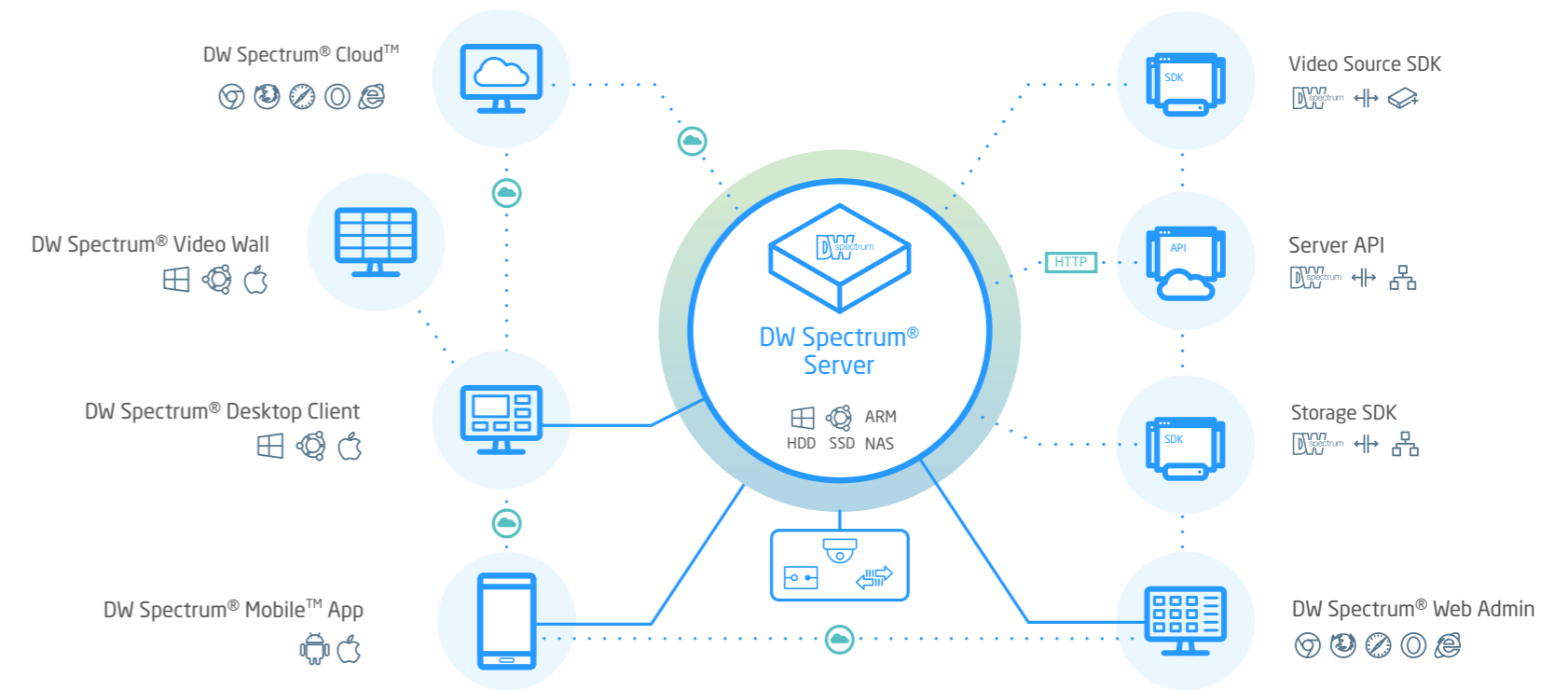
IP Video Management Software (IPVMS)

Apps for all operating systems. Cloud enabled.
Automated. Intuitive. Built for Users.
Auto-discover devices from hundreds of manufacturers.
Open for developers. Integrate anything.

Built
for
Users.™



DW spectrum
IPVMS
Complete Scalable Video Management



Enterprise features are standard

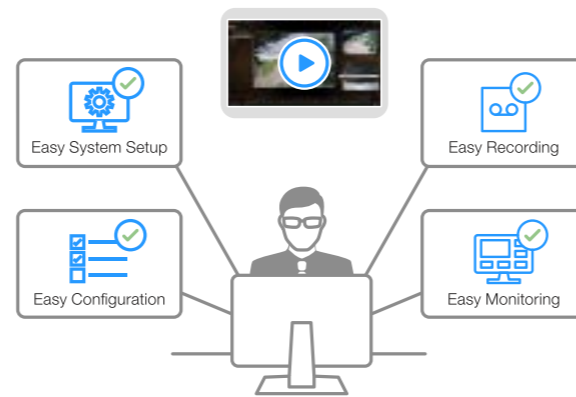
DW Spectrum® IPVMS includes many enterprise level features such as;

- Custom user role management
- Multi-server and centralized management
- Health monitor
- Video storage analytic
- Failover: Protects video recording from data loss
- LDAP / active directory
- Video wall



Interface is dramatically easier to use

Highly refined GUI delivers seamless transitions, customizable layouts and zoom to create regions of interest or image enhancements.



End-to-end IP solutions

Although DW Spectrum® IPVMS is part of DW's complete end-to-end IP solution, with Blackjack servers, MEGApix IP cameras and DW Witness™ app, which converts your smartphone and tablets into a portable, high-quality surveillance camera.



Scalable from one to thousands of devices

Highly refined GUI delivers seamless transitions, customizable layouts and zoom to create regions of interest or image enhancements.



Lifetime updates included

While other companies require annual maintenance agreements, DW Spectrum® IPVMS system upgrades are always free of charge.

ACCESSORIES

Mount	Bracket				Gang	Junction			Angle	Etc	Camera
	Corner / Pole	Non-Pipe	Ceiling	In-Ceiling		Wall	Gang Plate	Junction_Wall			
		BC19 NPT	BC19	BR10	BW18		BW19	BJC10			VM9
		BC15 NPT	BC15	BR03 for VM5	BW15		BW16	BJC06	BJ14 for VM6		VM5 VM6
BC001 (Corner)		BC15 NPT	BC15	BR07 for VM7	BW15		BW16	BJC06			VM7
BP01 (Pole)			BC14	BR08	BW14						PX5
		BC09 NPT	BC09		BW09	GP02	BJC09 for Wall Bracket	BJC02			VD5
		BC08 NPT	BC08	BR04 for NK4 / BR05 for NK6	BW08	GP02 except for NK7	BJC09 for Wall Bracket_VM8		BSH06 for NK4, NK6		VM8 NK4 NK6 NK7

Mount	Bracket				Gang	Junction			Angle	Camera	
	Corner / Pole	Non-Pipe	Ceiling	In-Ceiling		Wall	Gang Plate	Junction_Wall			Junction
					BW06	GP02					NK2 NK5 VP3
					BA02 for VD4			BA03 for VD4 BA04 for VP5			VD4 VP5
BC001 (Corner)	BC11 NPT for VD7	BC11 for VD7		BR09 for VD9, VD13	BW11 for VD7	GP02	BJC09 for Wall Bracket	BJC04 for VD7			VD2 VD3 VD11 VD9 VD13 VD15 VF13 VD7 VD6
BP01 (Pole)	BC10 NPT	BC10			BW10			BJC03			B12 B13 B14 BH1
								BJC07			SF1 BT7 BT5 BT4 BT3 BT1 BT2 BT8 BMB
								BJC01 except for BT8 / BMB			