

2024 CPRO SECURITY SOLUTIONS

AI

2024 CPRO SECURITY SOLUTIONS

VER. 2403



DEEP LEARNING BASED AI Camera



MULTI SENSOR



4K



JUNCTION



IR REFLECTION FREE



BUBBLE FREE



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Technological innovation based on 28 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

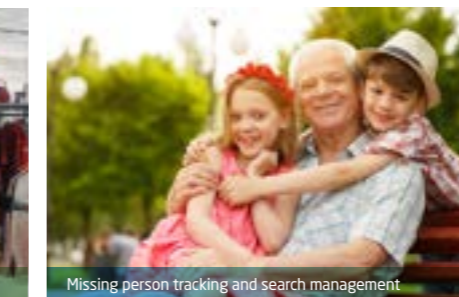
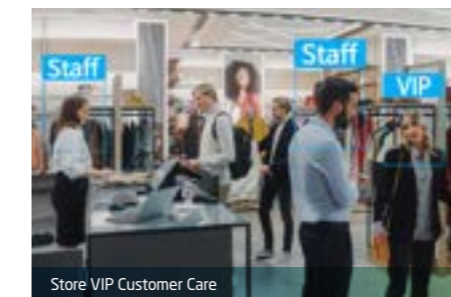
ANPR & Vehicle Recognition

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.



Face detection and recognition


best shot

privacy protection

FRVT

NAMING RULE

Example : **NVM20-710-R**



N	VM20	-	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	 BM8 2 Sensor Junction Box IR Bullet Dual Junction BULLET	 VD11 IR Turret GENIUS	 VD7 Mini IR Dome SPACE V
 VM5 4 Sensor Surround VF Dome SURROUND II	 SF1 Fisheye IR Bullet EYEVIEW	 VD2 IR Turret TURRET II	 VD6 Mini IR Dome (IRFD) SPACE VI
 VM6 4 Sensor Panorama Dome PREDATOR II	 VF13 Fisheye IR Dome FISHEYE II	 VD3 IR Turret TURRET III	 ST17 Full-Color SIREN
 VM7 2 Sensor IR Dome TWINS	 ST10 Height Strip PINHOLE II	 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
 VM20 2 Sensor IR Dome (IRFD) TWINS III	 ST16 Remote Head PINHOLE	 VD13 VF IR Dome SPACE IX	 BT6 VF IR Bullet FIESTO
 BM3 2 Sensor Thermal IR Bullet DUAL THERMAL	 PX5 30X PTZ IR (IRFD) ENDLESS III	 VD10 Flat IR Dome (IRFD) SPACE VIII	 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

● AI S : Siren E : Elevator
● VCA T : Thermal L : LPR
● J : Junction

Housing	MULTI SENSOR								FISHEYE		PINHOLE			PTZ
	VM9	VM5	VM6	VM7	VM8	VM20	BM3	BM8	SF1	VF13	ST10	ST11	ST16	PX5
Pro	12M									●				
	8M			●					●	●				
	5M	●	●		●	●	T	J		●	●	●	●	
	2M ↓													●
Main	8M													
	5M													
	2M													
Eco	5M													
	2M ↓													

● AI S : Siren E : Elevator
● VCA T : Thermal L : LPR
● J : Junction

Housing	TURRET			DOME						BULLET				
	VD11	VD2	VD3	NK7	VD15	VD13	VD10	VD7	VD6	ST17	BT8	BT7	BT6	BH1
Pro	12M													
	8M				J			●			S	J		
	5M			S	J			●	●				L	
	2M ↓													●
Main	8M	●						●	●				●	●
	5M		●	●				●	●				●	●
	2M		●					●						
Eco	5M													
	2M ↓													●

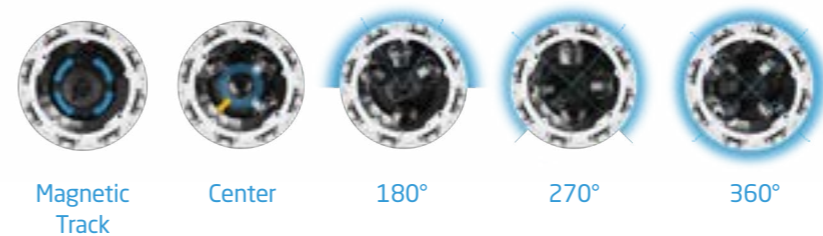
AI TOTAL 20MP 4 SENSORS MFZ SURROUND IR DOME



NVM9-720-R

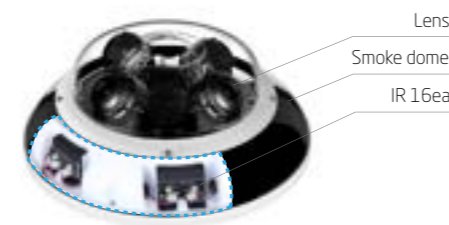
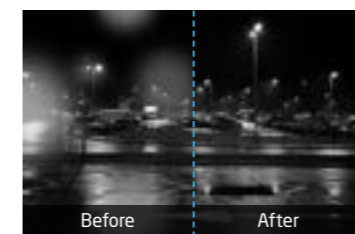


5MP 4CH
TOTAL
20MP



Flexible Sensor Arrangement

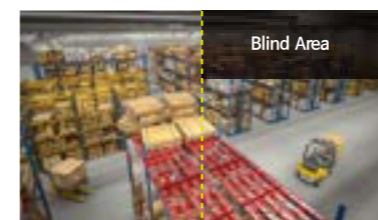
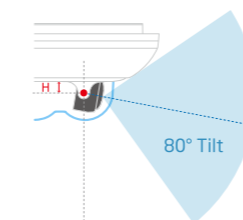
Easy to arrange 4 Magnetic Sensors through the Track. You can get Vertical Top View through Center Position, and 180°, 270°, or 360° View of video.



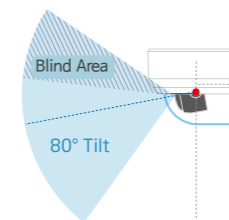
Improving diffused reflection at night by separating lens and IR structure

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 aspheric 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 Exposure	2.8~8.0mm, F1.6 / Auto Exposure
MIN.Illumination	Color : 0.1Lux / BW : 0.1Lux with IR	Color : 0.1Lux / BW : 0.05Lux
Horizontal Angle	93° ~ 51°	93° ~ 51°
IR	H16IR	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 / 1 Line	1 Line / 1 Line
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 Class 5	DC 12V PoE IEEE 802.3bt Class 5
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, KC, IK10, IP67	FCC, CE, ROHS, UL, KC, IK10, IP67
Dimensions (W x H)	280.5mm x 126.2mm	210mm x 92mm
Weight	3.5Kg	1.9Kg
Material	Aluminum-Die Casting	Aluminum-Die Casting

AI TOTAL 32MP 4 SENSORS PANORAMIC DOME



NVM6-732

PREDATOR

AI



32MP Panorama Dome
NVM6-732

Image Device	1/1.8" 8.48M(STV2) CMOS x 4ch
Total Pixels	3856 (H) x 2200 (V)
Focal Length	9.0mm, F2.6 / Auto Exposure
MIN.Illumination	Color: 0.13Lux / BW: 0.007Lux
Horizontal Angle	Over 180°
IR	Non-IR
Day & Night	TDN (True Day & Night)
WDR	WDR(2x)
DNR	3D DNR
Video Compression	H.264, H.265, MJPEG
Audio In / Out	1Line[1.0Vrms, 3K ohm] / 1 Line
Alarm In / Out	1Line / 1Line
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	DC12V PoE IEEE 802.3bt Class5
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IK10, IP67
Dimensions (W x H)	210mm x 131mm
Weight	3.0kg
Material	Aluminum-Die Casting



20° Rotation

Total 20° Tilt

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



NVM20-710-R

AI TOTAL 10MP 2 SENSORS MFZ DUAL IR DOME

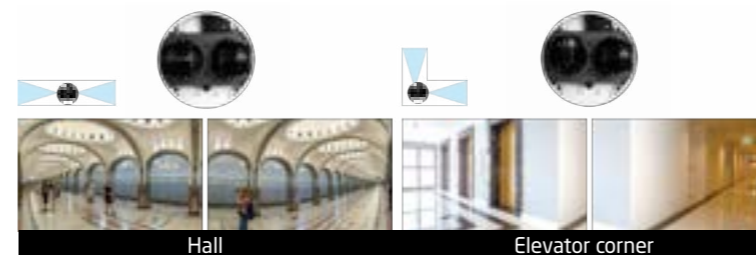


5MP 2CH
TOTAL
10MP



Block of night diffused reflection implement of lens and IR separation

Diffused reflection gets blocked completely thanks to IR and led separated design.



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.



Expanded surveillance area equipped with Aspherical hemispherical dome

Enabled horizontal near settings and monitoring thanks to the tilt central axis of the lens module protrudes to the outside.

TWINS



	Total 10MP MFZ Dual IR Dome NVM20-710-R	Total 10MP Dual Mini IR Dome NVM8-710-R	Total 10MP MFZ Dual IR Dome NVM7-510-R
Image Device	1/2.8" 5.17M(STV2) CMOS x 2ch	1/2.8" 5.69M CMOS x 2ch	1/2.8" 5.69M 5M CMOS x 2ch
Total Pixels	2608(H) x 1984(V) x 2ch	2704(H) x 2104(V) x 2ch	2704(H) x 2104(V) x 2ch
Focal Length	2.8~8mm, F1.6 / Auto Exposure	2.8mm(F1.8), 4.0, 6.0, 8.0mm(F2.0)/ Auto Exposure	2.7~13.5mm, F1.4 / P-IRIS
MIN.Illumination	Color : 0.05Lux / BW : 0Lux with IR	Color : 0.13Lux, etc : 0.16Lux / BW : 0Lux with IR	Color : 0.08Lux / BW : 0Lux with IR
Horizontal Angle	93° ~ 51°	102.4° / 82.3° / 51.9° / 37.8°	96° ~ 31°
IR	H4IR	H2IR + H2IR	H2IR
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	Choose Mic or 1 Line[1.0Vms, 3K ohm] / 1 Line(TBD)	Mic / 1 Line	1 Line[1.0Vms, 3K ohm] / 1Line
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line
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 Stora	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3at Class4	DC 12V PoE IEEE 802.3af Class 3	DC 12V PoE IEEE 802.3at Class 4
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IK10, IP67	FCC, CE, ROHS, KC, IK10, IP67	FCC, CE, ROHS, UL, KC, IK10, IP67
Dimensions (W x H)	152mm x 103mm	139mm x 79.5mm	210mm x 105.3mm
Weight	0.9Kg	0.68Kg	2.1Kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

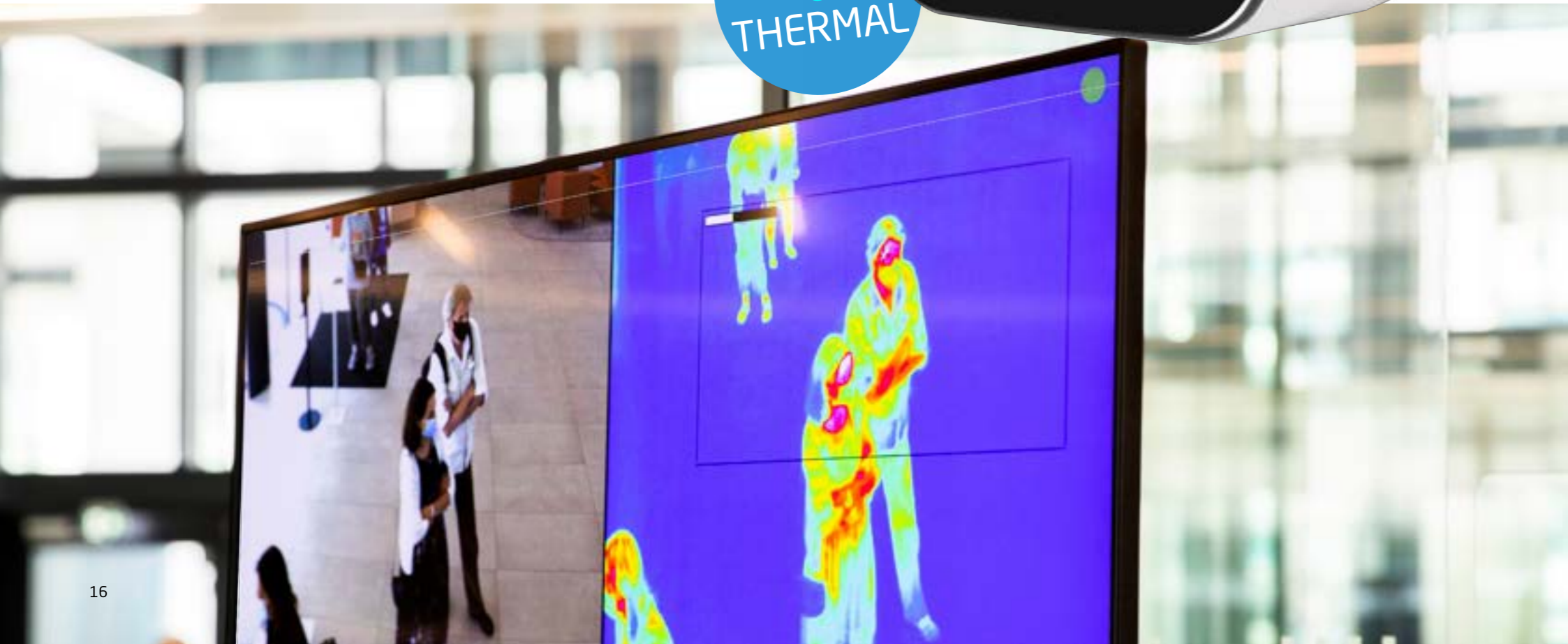
AI 5MP / THERMAL DUAL IR BULLET



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



5MP Thermal IR Bullet
NBM3-75-RT

Image Device	5.69M + 76.8K CMOS
Total Pixels	2704(H) x 2104(V) + 320(H) x 240(V)
Focal Length	4.0mm+4.0mm, F2.0+F1.0 / Auto Exposure
MIN. Illumination	Color : 0.16Lux, BW : 0Lux with IR
Horizontal Angle	82.3° / 56°
IR	H2IR
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] / 1 Line
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 Class3
Operating Temp	-40°C ~ 50°C
Certification	FCC, CE, ROHS, UL, IK09, IP66
Dimensions (W x H)	242.3mm x 96.7mm
Weight	0.98kg
Material	Aluminum-Die Casting

MULTI SENSOR

AI FULL COLOR SPEAKER / SIREN



SIREN
Full-color & Flash light



NST17-78-WA

NST17-78-WA

Thickness	Height	Width
239.5mm	170mm	260mm

iPad Air 4

Thickness	Height	Width
5mm	177mm	246mm

Overwhelming size and speaker volume

NST17-78-WA boasts an overwhelming huge among CPRO cameras. The performance of built-in speaker and led are powerful as much as its body.



Powerful warning light&alarm through AI when invasion detect

When there's invasion detected in specific area, by using the strengthen warning light/alarm function these are activated. thanks to this, crime could be prevented in advance.



Invasion detection availability even at wide and noisy place

By using powerful speaker and led, installer could use the invasion detection function at a huge and noise place.

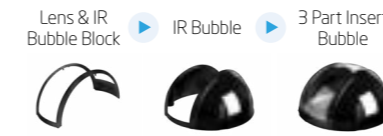
SIREN



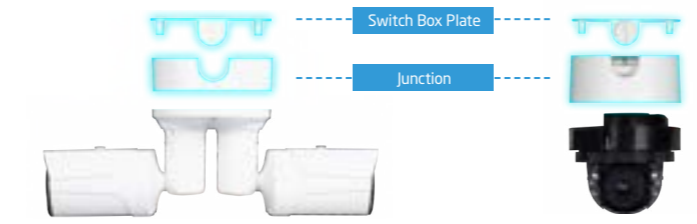
4K Siren Full Color Flashlight
NST17-78-WA

Image Device	1/2.8" 8.6M CMOS
Total Pixels	3856 (H) x 2200 (V)
Focal Length	6~22mm, F1.6 / P - IRIS
MIN.Illumination	Color : 0.12Lux / BW : 0Lux with White
Horizontal Angle	49° ~ 18°
IR	Non-IR
Day & Night	No
WDR	WDR(2x)
DNR	3D DNR
Video Compression	H.265, H.264, MJPEG
Audio In / Out	1 Line[1.0Vrms, 3K ohm] / 1 Line & Speaker
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, Siren, Flashlight
Edge Storage	Micro SD / SDHC /SDXC
Power	DC 12V PoE IEEE 802.3at Class6
Operating Temp	-20°C ~ 50°C
Certification	FCC, CE, ROHS, IK10, IP67
Dimensions (W x H)	260mm x 156mm
Weight	3.7kg
Material	Aluminum-Die Casting

AI 4K MFZ JUNCTION DOME / BULLET



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



	AI 4K MFZ Junction IR Dome NNK7-78-R/RZ(622)	AI 4K MFZ Junction IR Bullet NBT8-78-R	AI Total 10MP MFZ Junction IR Bullet NNB8-710-R
Image Device	1/2.8" 8.6M CMOS	1/2.8" 8.6M CMOS	1/2.8" 5.17M(STV2) 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 6mm ~ 22mm, F1.6 / 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 : 0.12Lux / BW : 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR	Color : 0.04Lux / BW : 0Lux with IR
Horizontal Angle	90.3° ~ 33.1° 49.3° ~ 18.1°	90.3° ~ 33.1°	98.3° ~ 31.6°
IR	H4IR	H4IR	H4IR + H4IR
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	Choose Mic or 1 Line[1.0Vms, 3K ohm] / 1 Line(TBD)	Choose Mic or 1 Line[1.0Vms, 3K ohm] / 1 Line(TBD)	Choose MIC or 1 Line[1.0Vms, 3K ohm] / 1 Line & Speaker(TBD)
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line
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 802.3at Class4
Operating Temp	-40°C ~ 50°C -40°C ~ 55°C	-40°C ~ 55°C	-40°C ~ 50°C
Certification	FCC, CE, ROHS, IK10, IP67	FCC, CE, ROHS, IK10, IP67	FCC, CE, ROHS, IK10, IP67
Dimensions (W x H)	146mm x 130mm	289mm x 147mm	325.9mm x 171.1mm
Weight	1.42Kg	2.12Kg	3.2kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

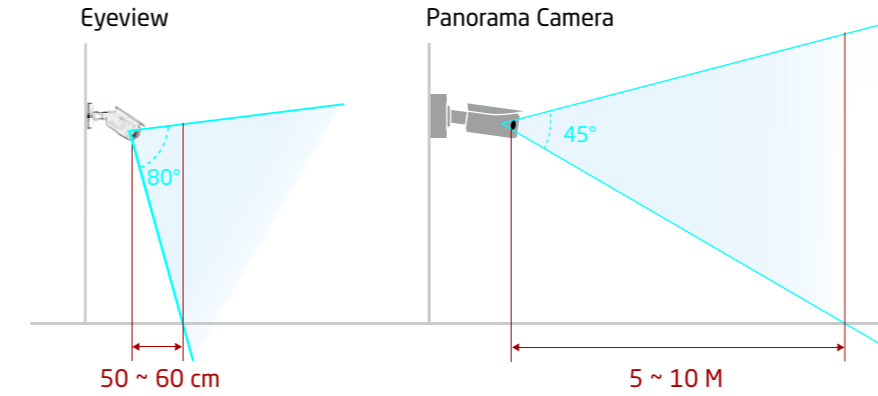
AI 4K 1 SENSOR PANORAMIC IR BULLET



4K

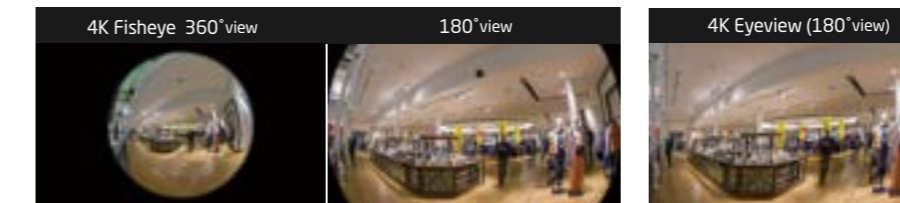


NSF1-78-RS



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" 8.48M(STV2) CMOS	1/1.8" 9.17M CMOS
Total Pixels	3856 (H) x 2200 (V)	3952 (H) x 2320 (V)
Focal Length	2.3mm, F2.8 / Auto Exposure	2.3mm, F2.8 / Auto Exposure
MIN.Illumination	Color : 0.15Lux / BW : 0Lux with IR	Color : 0.29Lux / BW : 0Lux with IR
Horizontal Angle	175°	175°
IR	H4IR	H4IR
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 / 1 Line	1 Line / 1 Line
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, KC, IK10, IP67	FCC, CE, ROHS, KC, IK10, IP67
Dimensions (W x H)	222.5mm x 96.7mm	222.5mm x 96.7mm
Weight	0.97Kg	0.97Kg
Material	Aluminum-Die Casting	Aluminum-Die Casting

AI 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



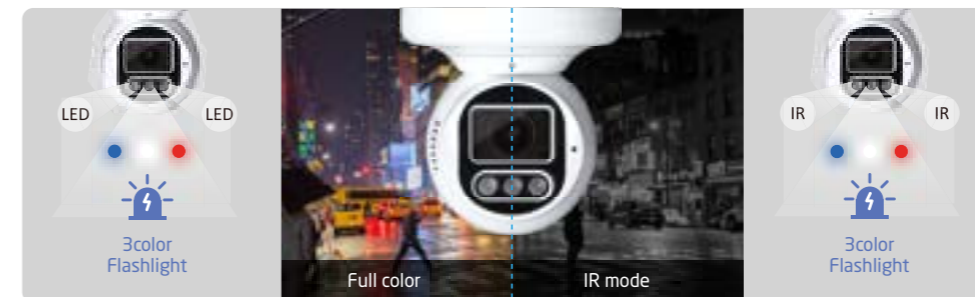
12M Fisheye IR Dome NVF13-712-R 5MP Fisheye IR Dome NVF13-75-R 5MP Fisheye IR Dome NVF13-75L-R

	12M Fisheye IR Dome NVF13-712-R	5MP Fisheye IR Dome NVF13-75-R	5MP Fisheye IR Dome NVF13-75L-R
Image Device	1/2.3" 12.93M CMOS	1/2.8" 5.69M CMOS	1/2.8" 5.17M(STV2) CMOS
Total Pixels	4072 (H) x 3176 (V)	2704 (H) x 2104 (V)	2608 (H) x 1984 (V)
Focal Length	1.5mm, F2.2 / Auto Exposure	1.19mm, F2.0 / Auto Exposure	1.19mm, F2.0 / Auto Exposure
MIN.Illumination	Color : 0.52Lux / B/W : 0 Lux with IR	Color : 0.16Lux / B/W : 0 Lux with IR	Color : 0.08Lux / B/W : 0 Lux with IR
Horizontal Angle	185°	185°	185°
IR	H3IR	H3IR	H3IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)
WDR	Yes	Yes	Yes
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 / 1Line	Mic / 1Line
Alarm In / Out	1 Line / 1 Line	1 Line In / 1 Line Out	1 Line / 1 Line
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, UL, KC, IK10, IP67	FCC, CE, ROHS, UL, KC, IK10, IP67	FCC, CE, ROHS, UL, KC, IK10, IP67
Dimensions (W x H)	125mm x 58mm	125mm x 58mm	125mm x 58mm
Weight	0.55kg	0.55kg	0.55kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

AI FULL COLOR / IR FLASHLIGHT & SIREN TURRET

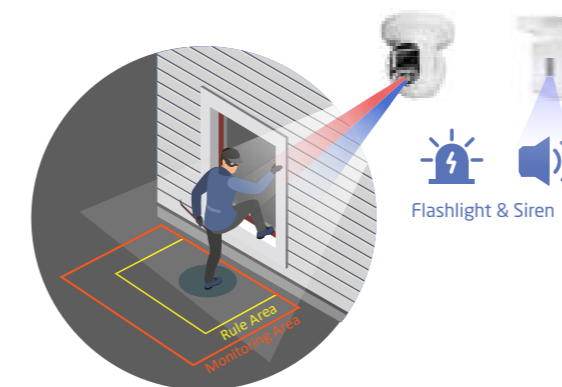


SIREN
Full-color & Flashlight



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.



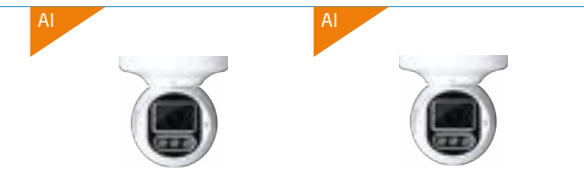
Light alarm prevents intrusion

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 5MP Siren Full Color Flashlight Turret NVD3-75-WA(RA)	AI 5MP Siren Full Color Flashlight Turret NVD3-75L-WA
Image Device	1/2.8" 5.17M(STV2) CMOS	1/2.8" 5.17M(STV2) CMOS
Total Pixels	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)
Focal Length	2.7~12mm, F1.3 / P - IRIS 2.7~13.5mm, F1.4 / P - IRIS	2.7~12mm, F1.3 / P-IRIS
MIN.Illumination	Color : 0.03Lux / BW : 0Lux with White Color : 0.04Lux / BW : 0Lux with IR	Color : 0.03Lux / BW : 0 Lux with White
Horizontal Angle	89.9° ~ 31.5° / 98.3° ~ 32°	89.9° ~ 31.5°
IR	H2W / H1RGB	H 2 W / H1RGB
Day & Night	No / TDN (True Day & Night)	No
WDR	WDR (2x)	WDR(2x)
DNR	3D DNR	3D DNR
Video Compression	H.265, H.264, MJPEG	H.264, H.265, MJPEG
Audio In / Out	Mic / Speaker	Mic / Speaker
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line
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 / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3at Class4	DC 12V PoE IEEE 802.3at Class4
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, KC, IK10, IP67	FCC, CE, ROHS, IK10, IP67
Dimensions (W x H)	125mm x 121.7mm	125mm x 121.7mm
Weight	0.88kg	0.88kg
Material	Aluminum-Die Casting	Aluminum-Die Casting

AI HEIGHT STRIP/ DOOR JAMB PINHOLE



All CPPO's IP Cameras support the latest ONVIF version.

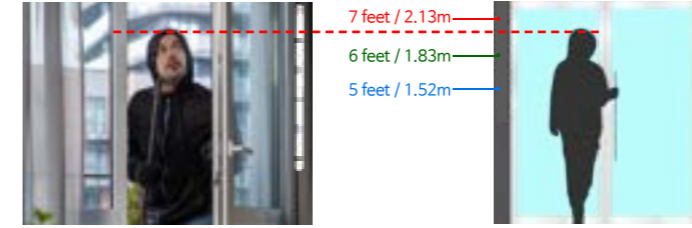
Face /
Height
Detect



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

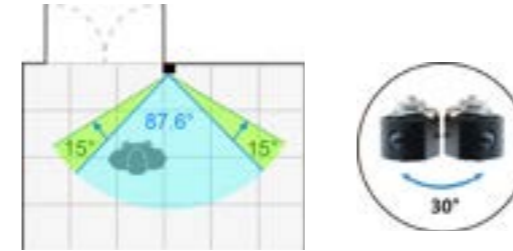


NST10-75L



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 ±15° each

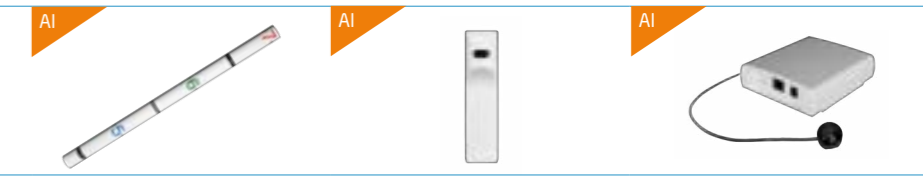
Through the adjustable 5MP pinhole lens as left and right ±15° each it could provide not only the vivid video also optimal viewing angles even when installed in large sized doors.



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



5MP Height Indicator Strip Pinhole NST10-75L

5MP Door Jamb Pinhole NST11-75L

2MP Remote Head Pinhole NST16-75L

Image Device	1/2.8" 5.17M(STV2) CMOS	1/2.8" 5.17M CMOS	1/2.8" 5.17M(STV2) CMOS
Total Pixels	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)
Focal Length	3.7mm, F2.5 / Auto Exposure	3.7mm, F2.5 / Auto Exposure	3.7mm, F2.5 / Auto Exposure
MIN.Illumination	Color : 0.13Lux	Color : 0.13Lux	Color : 0.13Lux
Horizontal Angle	87.6°	87.6°	87.6°
IR	Non-IR	Non-IR	Non-IR
Day & Night	S/W Day & Night	S/W Day & Night	S/W Day & Night
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	1 Line[1.0Vrms, 3K ohm]/1 Line
Alarm In / Out	No	No	1 Line / 1 Line
Video Output	No	No	No
Event Notification	FTP, E-Mail, SD Card	FTP, E-Mail, SD Card	FTP, E-Mail, SD Card
Edge Storage	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC	Micro SD / SDHC / SDXC
Power	DC 12V PoE IEEE 802.3af Class2	DC 12V PoE IEEE 802.3af Class2	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
Dimensions (W x H)	51.5mm X 860mm	50.3mm X 190mm	TBD
Weight	0.7kg	0.4g	TBD
Material	Aluminum sheet metal	Plastic	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

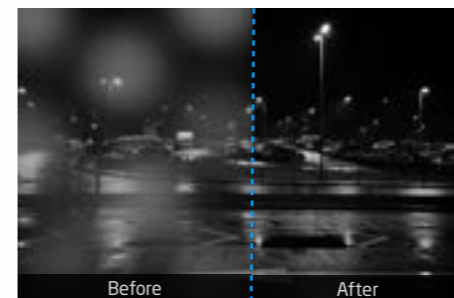


	2MP 30X IR PTZ NPX5-52-R	2MP 3X IR PTZ NPX3-52
Image Device	1/3" 2.55M CMOS	1/2.8" 2.1M CMOS
Total Pixels	1981 (H) x 1288 (V)	1945 (H) x 1109 (V)
Focal Length	4.3 ~ 129mm, F1.6 ~ F4.7 / Auto Exposure	2.8 ~ 8mm, F1.6 / P-IRIS
MIN.Illumination	Color : 0.05Lux / BW : 0 Lux IR	Color : 0.03Lux / BW : 0.006
Horizontal Angle	65.1° ~ 2.34°	114.7° ~ 59.3°
IR	H6IR	Non-IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)
WDR	No	WDR (2x)
DNR	3D DNR	3D DNR
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Audio In / Out	1 Line[1.0Vrms, 3K ohm] / 1Line	1 Line[1.0Vrms, 3K ohm] / 1Line
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line
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 24V / AC 24V PoE IEEE 802.3at Class5	DC 12V PoE IEEE 802.3at Class4
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, KC, IK10, IP66	FCC, CE, ROHS, KC, IP67
Dimensions (W x H)	150mm x 160mm	125mm x 116mm
Weight	2.8Kg	1Kg
Material	Aluminum-Die Casting	Aluminum-Die Casting

AI 4K FLAT / 5MP IR DOME



IR
Reflection
FREE



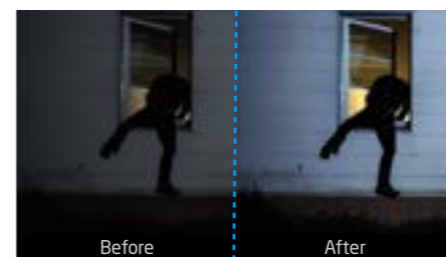
Block of night diffused reflection implement of lens and IR separation

Diffused reflection gets blocked completely thanks to IR and led seperated design.



Expansion for vertical installed area of surveillance

Thanks to aspherical hemisphere designed technology, comparing to general products the vertical monitoring setting range has been improved by 15° degrees.



Improved performance at night surveillance

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

DOME



5MP Mini IR Dome NVD6-75L-R 4K MFZ IR Flat Dome NVD10-78-R/RZ(622) 4K MFZ IR Flat Dome NVD10-75L-R/RZ(622)

Image Device	1/2.8" 5.17M CMOS	1/2.8" 8.6M CMOS	1/2.8" 5.17M(STV2) CMOS
Total Pixels	2608 (H) x 1984 (V)	3864(H) x 2228(V)	2608(H) x 1984(V)
Focal Length	2.8mm, 4.0mm, 6.0mm, F2.2, F2.0 / Auto Exposure	2.7mm ~ 13.5mm, F1.4 / P-IRIS 6mm ~ 22mm, F1.6 / P-IRIS	2.7~13.5mm, F1.4 / P - IRIS 6mm ~ 22mm, F1.6 / P-IRIS
MIN.Illumination	Color : 0.08Lux / BW : 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR Color : 0.12Lux / BW : 0Lux with IR	Color : 0.04Lux / BW : 0Lux with IR Color : 0.05Lux / BW : 0Lux with IR
Horizontal Angle	97.7° (2.8mm) / 76.6° (4mm) 51.9° (6mm)	90.3° ~ 33.1° 49.3° ~ 18.1°	98.3° ~ 31.6° 39.2° ~ 16.5°
IR	H2IR	H2IR	H2IR
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 / 1 Line	1 Line / 1 Line	1 Line / 1 Line
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 Class3	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, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67
Dimensions (W x H)	105mm x 72mm	125mm x 100mm	125mm x 100mm
Weight	0.44kg	0.63kg	0.63kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

AI 5MP MFZ / FIXED IR BULLET

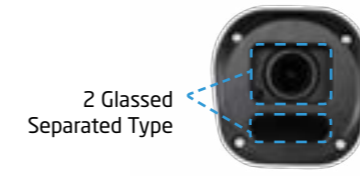


NBT6-75L-R

MFZ
or
FIXED



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.



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.

BULLET



	AI 5MP MFZ IR Bullet NBT6-75L-R	AI 5MP MFZ IR Bullet NBT6-75L-RZ(550 / 622)	AI 5MP MFZ IR Bullet NBT6-75L-RF
Image Device	1/2.8" 5.17M(STV2) CMOS	1/2.8" 5.17M(STV2) CMOS	1/2.8" 5.17M(STV2) 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, 6.0mm (F2.0) / Auto Exposure
MIN.Illumination	Color : 0.04Lux / BW : 0 Lux with IR	Color : 0.08 Lux / BW : 0 Lux with IR Color : 0.05 Lux / BW : 0 Lux with IR	Color : 0.08Lux, BW: 0Lux with IR
Horizontal Angle	98.3° ~ 31.6°	46.2° ~ 7.7°, 39.2° ~ 16.5°	97.7°(2.8mm) / 76.6°(4mm) / 51.9°(6mm)
IR	H3IR	H3IR	H3IR
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 / 1 Line	1 Line In/1 Line Out	1 Line / 1 Line
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, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, 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-Die Casting	Aluminum-Die Casting	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

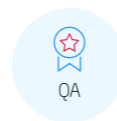
It is easy and convenient to install, and has a sophisticated appearance.



Great Partnership

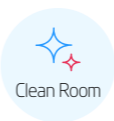
Inventory, production management, local RMA support and custom OEM projects.

Vietnam Factory



Quality Assurance

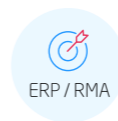
We maintain higher QA standards through intensive training and continuous support.



Clean Room

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

ERP / RMA

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



Knowhow

Know-How

We are committed to the best video quality by professionals with over 12 years of experience.



R&D CENTER _ Gasan

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 _ Seongnam

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

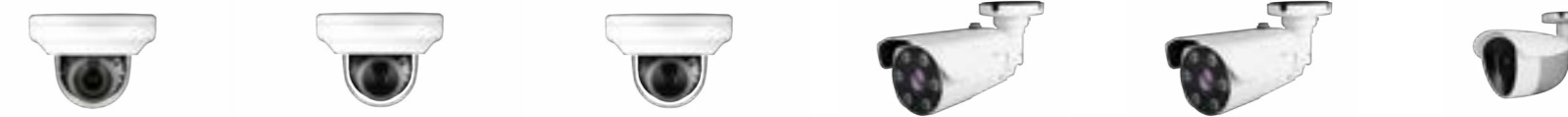
The 2nd factory in Vietnam is capable of producing entire camera assembly and inspection process in a clean room, and a mass production system from parts to finished products is established with production facilities capable of SMD and mechanism process.

						
	4K MFZ Flat IR Dome NVD13-78-R	5MP MFZ Flat IR Dome NVD13-75-R	5MP MFZ IR Dome NVD13-25-R(fixed)	5MP MFZ Flat IR Dome NVD13-75L-R	2MP MFZ HDMI Flat IR Dome NVD15-72-RH	5MP Mini IR Dome NVD7-75-R
Image Device	1/2.8" 8.6M CMOS	1/2.8" 5.69M CMOS	1/2.4" 5.17M CMOS	1/2.8" 5.17M(STV2) CMOS	1/2.8" 2.1M CMOS	1/2.8" 5.69M CMOS
Total Pixels	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2608 (H) x 1984 (V)	2608 (H) x 1984 (V)	1945 (H) x 1109 (V)	2704 (H) x 2104 (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 4.0mm, F1.6 / Auto Exposure	2.7~13.5mm, F1.4 / P-IRIS	2.7~13.5mm, F1.4 / P - IRIS	2.8mm (F2.2), 4.0mm (F2.0), 6.0mm (F2.0), 8.0mm / Auto Exposure
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 : 0.04Lux / BW: 0Lux with IR	Color : 0.02Lux / BW: 0Lux with IR	Color : 0.16Lux / BW : 0Lux with IR
Horizontal Angle	90.3° ~ 33.1°	98.3° ~ 31.6°	106° ~ 35° / 78°	98.3° ~ 31.6°	107.9° ~ 34.1°	97.7° (2.8mm) / 76.6° (4mm) / 51.9° (6mm)
IR	H 2 IR	H 2 IR	H 2 IR	H 2 IR	H 2 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)	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	Mic / 1Line	1 Line[1.0Vms, 3K ohm] / 1 Line	Mic / 1Line
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line
Video Output	1 [CVBS 1.0V p-p (75Ω)]	1 [CVBS 1.0V p-p (75Ω)]	No	1 [CVBS 1.0V p-p (75Ω)]	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 Class3	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	DC 12V PoE IEEE 802.3af Class 3
Operating Temp	-20°C ~ 50°C	-20°C ~ 50°C	-30°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Certification	FCC, CE, ROHS, UL, KC, IK10, IP67	FCC, CE, ROHS, UL, KC, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, KC, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67
Dimensions (W x H)	125mm x 92mm	125mm x 92mm	125mm x 92mm	125mm x 92mm	125mm x 103mm	105mm x 60.7mm
Weight	0.52kg	0.52kg	0.52kg / 0.51kg	0.52kg	0.58kg	0.36kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

						
	5MP MFZ IR Bullet NBT6-25-R(fixed)	4K IR Bullet NBT7-78-R	4K IR Bullet NBT7-78-RZ(622)	5MP IR Bullet NBT7-75-R/RZ	5MP IR Bullet NBT7-75-RL	5MP IR Turret NVD3-75L-R(fixed)
Image Device	1/2.4" 5.17M CMOS	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" 5.17M(STV2) CMOS
Total Pixels	2608 (H) x 1984 (V)	3864 (H) x 2228 (V)	3864 (H) x 2228 (V)	2704 (H) x 2104 (V)	2704 (H) x 2104 (V)	2608 (H) x 1984 (V)
Focal Length	2.8 ~ 12mm, F1.6 / P-IRIS 4.0mm, F1.6 / Auto Exposure	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	2.7~13.5mm, F1.4 / P - IRIS 2.8mm (F2.2), 4.0mm / Auto Exposure
MIN. Illumination	Color : 0.06Lux(TBD) / BW: 0Lux with IR	Color : 0.09Lux / BW : 0Lux with IR	Color : 0.12Lux / BW : 0Lux with IR	Color : 0.08Lux / BW : 0Lux with IR Color : 0.1Lux / BW : 0Lux with IR	BW: 0Lux with IR	Color : 0.04Lux / 0Lux with IR Color : 0.08Lux / 0Lux with IR
Horizontal Angle	106° ~ 35° / 78°	90.3° ~ 33.1°	49.3° ~ 18.1°	98.3° ~ 31.6° 40.8° ~ 6.9°	40.8° ~ 6.9°	98.3° ~ 31.6° / 97.7° (2.8mm), 76.6° (4mm)
IR	H 3 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)	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 / 1 Line
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line
Video Output	No	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
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 802.3af Class3	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 Class4 / Class3
Operating Temp	-30°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, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67	FCC, CE, ROHS, UL, IK10, IP67
Dimensions (W x H)	197.5mm x 86mm	310mm x 97mm	310mm x 97mm	310mm x 97mm	310mm x 97mm	125 x 121.7mm
Weight	0.97kg / 0.93kg	1.2kg	1.2kg	1.2kg	1.2kg	0.85kg
Material	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting



	SMP Height Indicator Strip Pinhole NST10-65	5M Door Jamb Pinhole NST11-65	4K MFZ IR Turret NVD11-58-R	4K IR Turret NVD11-58-R_Fixed	5M MFZ 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" 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 / Auto Exposure	3.7mm, F2.5 / Auto Exposure	2.7~13.5mm, F1.4 / P - IRIS	2.8, 4.0, 6.0mm, F2.0 / Auto Exposure	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 : 0.13 Lux (2.8mm), 0.16 Lux (4mm) / 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
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 / 1 Line	1 Line / 1 Line	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, KC	FCC, CE, ROHS, KC	FCC, CE, ROHS, IK09, IP66	FCC, CE, ROHS, IK09, IP66	FCC, CE, ROHS, IK10, IP67	FCC, CE, ROHS, IK10, IP67
Dimensions (W x H)	51.5mm x 860mm	50.3mm x 190mm	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 Sheet Metal	Plastic	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting



	4K MFZ Flat IR Dome NVD13-58-R	4K Flat IR Dome NVD13-58-R_Fixed	4K MFZ 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	2.8mm, 4.0mm, 6.0mm / F2.0 / P-IRIS	3.6~10mm, F1.5 / P-IRIS 2.8, 4.0, 6.0mm F1.6 / Auto Exposure	2.7~13.5mm, F1.4 / P-IRIS	3.6~10mm, F1.5 / P-IRIS	4.0mm, F1.0 / Auto Exposure
MIN. Illumination	Color : 0.09Lux / Bw : 0Lux with IR	Color : 0.12Lux / Bw : 0Lux with IR	Color : 0.09Lux / Bw : 0Lux with IR Color : 0.1Lux / Bw : 0Lux with IR	Color : 0.09Lux / Bw : 0Lux with IR	Color : 0.09Lux / Bw : 0Lux with IR	-
Horizontal Angle	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° ~ 45.7°	35° / 56°
IR	H 2 IR	H 2 IR	H 2 IR	H 6 IR	H 6 IR	- / Non-IR
Day & Night	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	TDN (True Day & Night)	No
WDR	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	WDR (2x)	No
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	1 Line[1.0Vms, 3K ohm] / 1 Line
Alarm In / Out	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	1 Line / 1 Line	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)]	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, IK10, IP67	FCC, CE, ROHS, IK10, IP67	FCC, CE, ROHS, IK10, IP67	FCC, CE, IK10, IP67	FCC, CE, ROHS, IK10, 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-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting	Aluminum-Die Casting

DW SPECTRUM

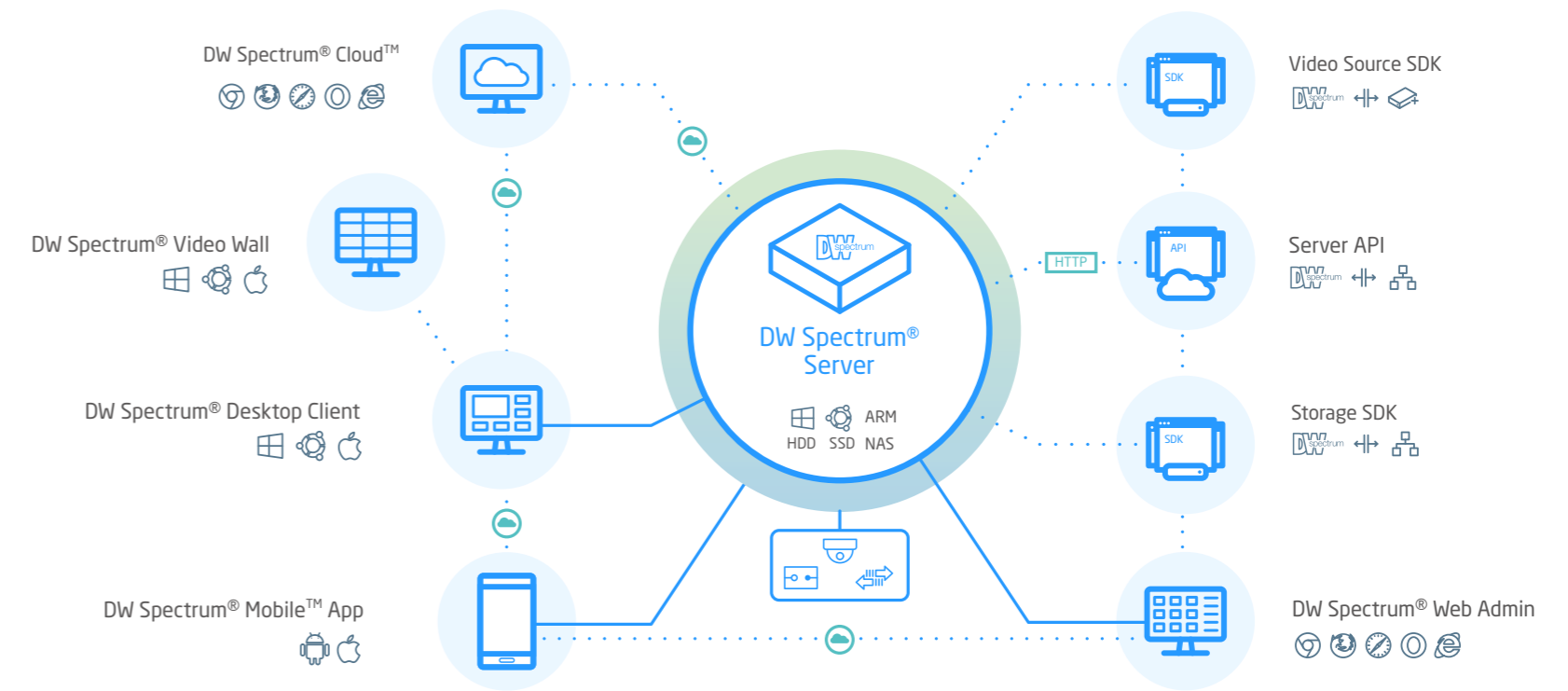
IP Video Management Software (IPVMS)

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

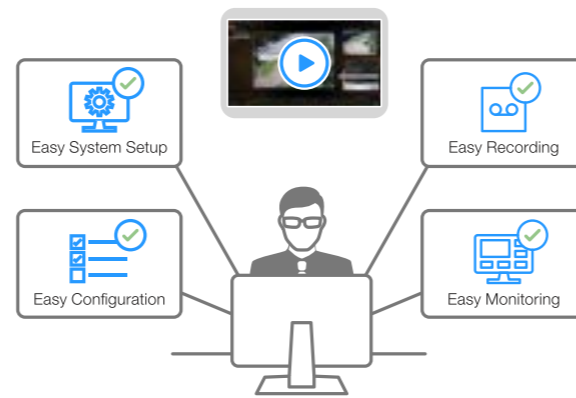
DW Spectrum® IPVMS includes many enterprise level features such as;

- 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



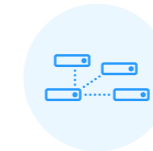
Interface is dramatically easier to use

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			
 BC001 (Corner)  BP01 (Pole)	 BC19 NPT	 BC19	 BR10	 BW18	 BW19	 BJC10					 VM9
	 BC15 NPT	 BC15	 BR03 for VM5	 BW15	 BW16	 BJC06			 BJ14 for VM6		 VM5 VM6
	 BC20 NPT	 BC20		 BW20		 BJC09 for Wall Bracket	 BJC20				 VM20
	 BC08 NPT	 BC08		 BW08		 BJC09 for Wall Bracket	 BJC09				 VM8
	 BC15 NPT	 BC15	 BR07	 BW15	 BW16	 BJC06					 VM7

Mount	Bracket				Gang	Junction			Angle	Etc	Camera
	Corner / Pole	Non-Pipe	Ceiling	In-Ceiling		Wall	Gang Plate	Junction_Wall			
 BC001 (Corner)  BP01 (Pole)							 BJC09				 ST17
		 BC14	 BR08		 BW14						 PX5
		 BC09 NPT	 BC09		 BW09	 GPO2	 BJC09 for Wall Bracket	 BJC02			 VD5
		 BC08 NPT	 BC08	 BR11	 BW08		 BJC09 for Wall Bracket			 BSH07	 NK7

ACCESSORIES

Mount	Bracket				Gang	Junction			Angle	Camera
Corner / Pole	Non-Pipe	Ceiling	In-Ceiling	Wall	Gang Plate	Junction_Wall	Junction	Junction_Angel	Angle	
 BC001 (Corner) BP01 (Pole)	 BC10 NPT	 BC10	 BR09 for VD13	 BW10	 GP02	 BJC03	 BJC08 for VF13			 VD2 VD3 VD11 VD9 VD13 VD15 VF13 VD10 VD6 VD7
	 BC11 NPT	 BC11		 BW11	 GP02	 BJC09 for Wall Bracket	 BJC04			
		 BA02 for VD4		 BW06	 GP02		 BA03 for VD4 BA04 for VP5			 VD4 VP5

Mount	Bracket				Gang	Junction			Angle	Camera
Corner / Pole	Non-Pipe	Ceiling	In-Ceiling	Wall	Gang Plate	Junction_Wall	Junction	Junction_Angel	Angle	
 BC001 (Corner) BP01 (Pole)							 BJC07			 BI2 BI3 BT6 BH1 SF1 BT7 BT5 BT4 BT3 BT2 BT1
										 BT8 BM8