



## IR Night Vision Smart Network Cameras

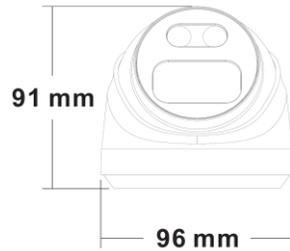


*Fine quality made in Taiwan*

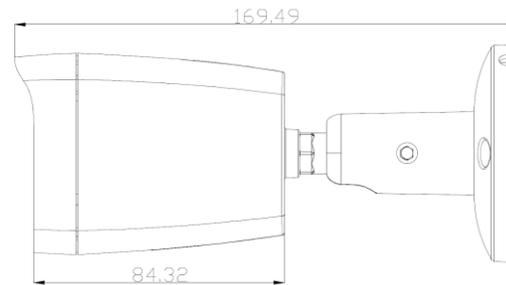
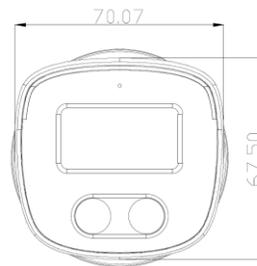
# Features

- ★ 5MP/8MP SONY Starvis CMOS sensor + Novatek (Taiwan) chip.
- ★ Support H.264 / H.264+ / H.265 / H.265+ / JPEG / AVI compression format.
- ★ Support 120dB WDR (Wide Dynamic Range), 3DNR (3D Noise Reduction), BLC (Backlight Compensation), AWB (Auto White Balance).
- ★ Support multi-stream transmission, each stream can be individually set and adjusted.
- ★ Support automatic adaptation of network bandwidth.
- ★ Support standard ONVIF protocol.
- ★ Support motion detection, image mask, automatic sending email and photo shooting when triggered.
- ★ Fixed lens models with optional 2.8mm/3.6mm/6mm lens, optional memory card slot, optional mic. or audio I/O.
- ★ Vari-Focal lens models with optional memory card slot, optional mic. or audio I/O.
- ★ Support OSD location setting to avoid blocking the screen.
- ★ Built-in IR LED, automatically fill light when the scene light is insufficient.
- ★ Support RJ45 10/100M, built-in POE IEEE 802.3af network power supply.
- ★ Support mobile monitoring (iPhone / iPad / Android / Android Pad).
- ★ Support various browsers (IE8~11 / Chrome / Firefox / Safari) and client software (VMS) for Mac & Windows.

# Product Types & Models – Fixed Lens Series



**Fixed Dome Camera (25M)**  
★ 5MP Model No.: NFC5D2R  
★ 8MP Model No.: NFC8D2R



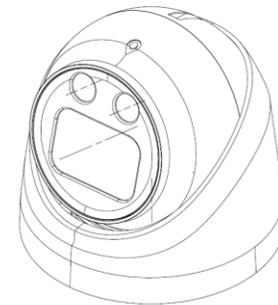
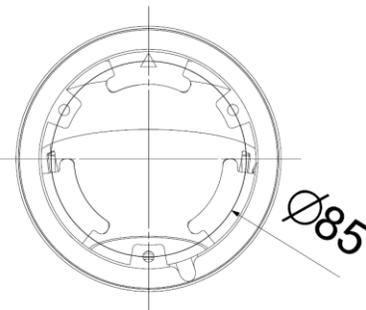
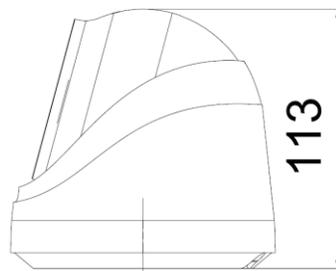
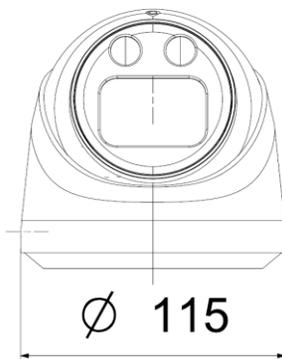
**Fixed Bullet Camera (25M)**  
★ 5MP Model No.: NFC5B3R  
★ 8MP Model No.: NFC8B3R

# Product Types & Models – Motorized V.F. Lens Series

Motorized Vari-Focal Dome Camera (30M)

★ 5MP Model No.: NFC**A5D4R**

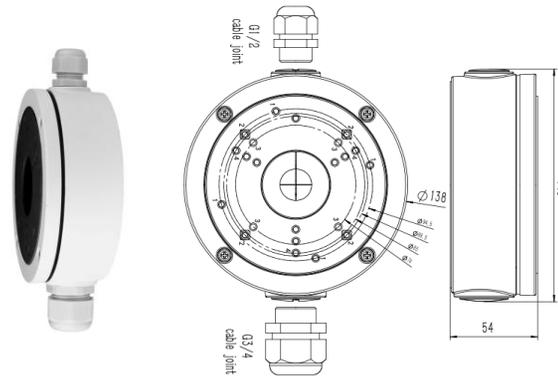
★ 8MP Model No.: NFC**A8D4R**



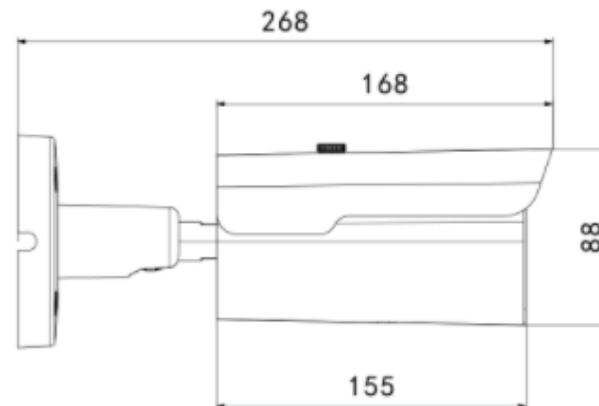
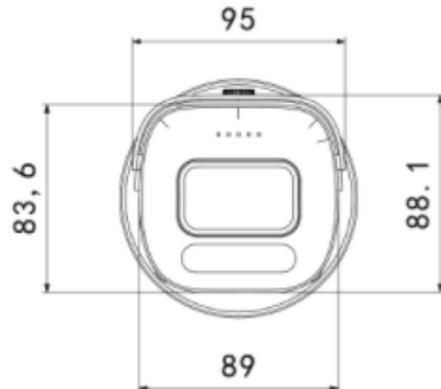
# Product Types & Models – Motorized V.F. Lens Series

## Motorized Vari-Focal Long Range Bullet Camera (40M)

- ★ 5MP Model No.: NFC**A5R2R**
- ★ 8MP Model No.: NFC**A8R2R**



Optional Junction Box  
★ Model No.: XPB2J



# Specifications (Fixed Lens Series – 5MP)

5MP



Model No.	NFC5D2R	NFC5B3R
CMOS Image Sensor	1/2.8" 5MP SONY IMX335 Starvis Back Illuminated CMOS Sensor + Novatek NT98566 Chip	
Effective Pixels (HxV)	2616x1964	
Compression Format	H.264 / H.264+ / H.265 / H.265+ / JPEG / AVI	
Video Format Standard	NTSC / PAL	
Elec. Shutter Speed	1/3~1/100,000s	
Minimum Illumination	0.006 LUX @ F1.6 (AGC ON) / 0 LUX @ IR	
S/N Ratio	≥ 60 dB	
System Scan	Progressive	
Video Output	Network	
Hardware Reset Button	NIL	
Lens Furnished	5MP HD Board Lens Fixed Focal 3.6mm (Optional 2.8mm / 6mm)	
LED	IR Array LED 850nm*2	
Projection Distance	25M	
LED Status	Auto Control	
LED Mode	Smart / Manual / Scheduled	
Ethernet	1*RJ-45 10/100M Auto Adaptive (Built-in 6KV Anti-Static Protection)	
Network Protocol	TCP/IP; IPv4/v6; ICMP; HTTP; HTTPS; FTP; DHCP; DNS; DDNS; RTP; RTSP; RTCP; PPPoE; NTP; SMTP; UDP; Qos; 802.1x	
ONVIF Version	ONVIF 2.4 (Profile S/T/G)	
P2P	Support	
Power Supply	DC12V±10%, 700mA; Built-in POE, Support IEEE 802.3af	
Browser	IE8~11 / Chrome / Firefox / Safari	

**5MP**



Model No.	NFC5D2R	NFC5B3R
Main Stream-1	2592x1944@30fps	
Main Stream-2	2560x1440@30fps	
Main Stream-3	1920x1080@30fps / 1280x720@30fps	
Sub-Stream-1	1280x720@30fps	
Sub-Stream-2	720x480@30fps	
Mobile Devices	iPhone / iPad / Android / Android Pad	
Smart Detection	Base on Humanoid & Vehicle: Intrusion Detection / Line Cross Detection Based on Humanoid: Motion Detection / Loiter Detection / People Gather Detection / Enter Area	
Day & Night	Color; B/W (IR-cut)	
Image Configuration	Saturation / Brightness / Contrast / Sharpness / Mirror / 3DNR / White Balance / Anti-Flicker / HLC / Video Tampering	
ROI (Region of Interest)	Support	
Wide Dynamic Range	120dB	
Image Mask	3 Rectangular Areas	
Video Record	NVR / VMS / WEB / SD card (Optional)	
Memory Card Slot	Optional Internal (Support max. 1TB)	
Microphone	Optional (w/o Audio I/O)	
Audio I/O	Optional 1CH / 1CH (w/o Microphone)	
Alarm I/O	NIL	
Housing Material	Metal IP67 Weatherproof	
Operating Environment	Temperature: -10°C to 50°C (14°F to 122°F) / Humidity: 95% Non-condensing	
Dimensions / Weight	96(D) x 91(H)mm / 600g	70(W) x 67.5(H) x 169(L)mm / 600g

# Specifications (Fixed Lens Series – 8MP)

8MP



Model No.	NFC8D2R	NFC8B3R
CMOS Image Sensor	1/2.8" 8MP SONY IMX415 Starvis Back Illuminated CMOS Sensor + Novatek NT98560 Chip	
Effective Pixels (HxV)	3864x2192	
Compression Format	H.264 / H.264+ / H.265 / H.265+ / JPEG / AVI	
Video Format Standard	NTSC / PAL	
Elec. Shutter Speed	1/3~1/100,000s	
Minimum Illumination	0.05 LUX @ F1.6 (AGC ON) / 0 LUX @ IR	
S/N Ratio	≥ 60 dB	
System Scan	Progressive	
Video Output	Network	
Hardware Reset Button	NIL	
Lens Furnished	8MP HD Board Lens Fixed Focal 3.6mm (Optional 2.8mm / 6mm)	
LED	IR Array LED 850nm*2	
Projection Distance	25M	
LED Status	Auto Control	
LED Mode	Smart / Manual / Scheduled	
Ethernet	1*RJ-45 10/100M Auto Adaptive (Built-in 6KV Anti-Static Protection)	
Network Protocol	TCP/IP; IPv4/v6; ICMP; HTTP; HTTPS; FTP; DHCP; DNS; DDNS; RTP; RTSP; RTCP; PPPoE; NTP; SMTP; UDP; Qos; 802.1x	
ONVIF Version	ONVIF 2.4 (Profile S/T/G)	
P2P	Support	
Power Supply	DC12V±10%, 700mA; Built-in POE, Support IEEE 802.3af	
Browser	IE8~11 / Chrome / Firefox / Safari	

**8MP**



Model No.	NFC8D2R	NFC8B3R
Main Stream-1	3840x2160@20fps	
Main Stream-2	2560x1440@20fps	
Main Stream-3	1920x1080@20fps / 1280x720@20fps	
Sub-Stream-1	1280x720@20fps	
Sub-Stream-2	720x480@20fps	
Mobile Devices	iPhone / iPad / Android / Android Pad	
Smart Detection	Base on Humanoid & Vehicle: Intrusion Detection / Line Cross Detection Based on Humanoid: Motion Detection / Loiter Detection / People Gather Detection / Enter Area	
Day & Night	Color; B/W (IR-cut)	
Image Configuration	Saturation / Brightness / Contrast / Sharpness / Mirror / 3DNR / White Balance / Anti-Flicker / HLC / Video Tampering	
ROI (Region of Interest)	Support	
Wide Dynamic Range	120dB	
Image Mask	3 Rectangular Areas	
Video Record	NVR / VMS / WEB / SD card (Optional)	
Memory Card Slot	Optional Internal (Support max. 1TB)	
Microphone	Optional (w/o Audio I/O)	
Audio I/O	Optional 1CH / 1CH (w/o Microphone)	
Alarm I/O	NIL	
Housing Material	Metal IP67 Weatherproof	
Operating Environment	Temperature: -10°C to 50°C (14°F to 122°F) / Humidity: 95% Non-condensing	
Dimensions / Weight	96(D) x 91(H)mm / 600g	70(W) x 67.5(H) x 169(L)mm / 600g

# Specifications (Motorized V.F. Dome Camera)



5MP

8MP

Model No.	NFCA5D4R	NFCA8D4R
CMOS Image Sensor	1/2.8" SONY Starvis Back-illuminated CMOS Sensor (5MP: IMX335 + NT98566 / 8MP: IMX415 + NT98560)	
Effective Pixels (HxV)	2616x1964	3864x2192
Compression Format	H.264 / H.264+ / H.265 / H.265+ / JPEG / AVI	
Video Format Standard	NTSC / PAL	
Elec. Shutter Speed	1/3~1/100,000s	
Minimum Illumination	0.006 LUX @ F1.6 (AGC ON) / 0 LUX @ IR	0.05 LUX @ F1.6 (AGC ON) / 0 LUX @ IR
S/N Ratio	≥ 60 dB	
System Scan	Progressive	
Video Output	Network	
Lens Furnished	5MP / 8MP HD Motorized Vari-Focal Auto Focus 2.7~13.5mm @ F1.6~F3.3	
LED	IR Array LED 850nm*2	
Projection Distance	30M	
LED Status	Auto Control	
LED Mode	Smart / Manual / Scheduled	
Ethernet	1*RJ-45 10/100M Auto Adaptive (Built-in 6KV Anti-Static Protection)	
Network Protocol	TCP/IP; IPv4/v6; ICMP; HTTP; HTTPS; FTP; DHCP; DNS; DDNS; RTP; RTSP; RTCP; PPPoE; NTP; SMTP; UDP; Qos; 802.1x	
ONVIF Version	ONVIF 2.4 (Profile S/T/G)	
P2P	Support	
Power Supply	DC12V±10%, 1000mA; Built-in POE, Support IEEE 802.3af	
Browser	IE8~11 / Chrome / Firefox / Safari	
Mobile Devices	iPhone / iPad / Android / Android Pad	



5MP

8MP

Model No.	NFCA5D4R	NFCA8D4R
Main Stream-1	2592x1944@30fps	3840x2160@20fps
Main Stream-2	2560x1440@30fps	2560x1440@20fps
Main Stream-3	1920x1080@30fps / 1280x720@30fps	1920x1080@20fps / 1280x720@20fps
Sub-Stream-1	1280x720@30fps	1280x720@20fps
Sub-Stream-2	720x480@30fps	720x480@20fps
Sub-Stream-3	NIL	
3 <sup>rd</sup> Stream	NIL	
Smart Detection	Base on Humanoid & Vehicle: Intrusion Detection / Line Cross Detection Based on Humanoid: Motion Detection / Loiter Detection / People Gather Detection / Enter Area	
Day & Night	Color; B/W (IR-cut)	
Image Configuration	Saturation / Brightness / Contrast / Sharpness / Mirror / 3DNR / White Balance / Anti-Flicker / HLC / Video Tampering	
ROI (Region of Interest)	Support	
Wide Dynamic Range	120dB	
Image Mask	3 Rectangular Areas	
Video Record	NVR / VMS / WEB / SD card (Optional)	
Memory Card Slot	Optional Internal (Support max. 1TB)	
Microphone	Optional (w/o Audio I/O)	
Audio I/O	Optional 1CH / 1CH (w/o Microphone)	
Alarm I/O	NIL	
Housing	Material: Metal IP67 Weatherproof / Dimensions: 115(D) x 113(H)mm / Weight: 800g	
Operating Environment	Temperature: -10°C to 50°C (14°F to 122°F) / Humidity: 95% Non-condensing	

# Specifications (Motorized V.F. Dome Camera)



5MP

8MP

Model No.	NFCA5R2R	NFCA8R2R
CMOS Image Sensor	1/2.8" SONY Starvis Back-illuminated CMOS Sensor (5MP: IMX335 + NT98566 / 8MP: IMX415 + NT98560)	
Effective Pixels (HxV)	2616x1964	3864x2192
Compression Format	H.264 / H.264+ / H.265 / H.265+ / JPEG / AVI	
Video Format Standard	NTSC / PAL	
Elec. Shutter Speed	1/3~1/100,000s	
Minimum Illumination	0.006 LUX @ F1.6 (AGC ON) / 0 LUX @ IR	0.05 LUX @ F1.6 (AGC ON) / 0 LUX @ IR
S/N Ratio	≥ 60 dB	
System Scan	Progressive	
Video Output	Network	
Lens Furnished	5MP / 8MP HD Motorized Vari-Focal Auto Focus 2.7~13.5mm @ F1.6~F3.3	
LED	IR Array LED 850nm*4	
Projection Distance	40M	
LED Status	Auto Control	
LED Mode	Smart / Manual / Scheduled	
Ethernet	1*RJ-45 10/100M Auto Adaptive (Built-in 6KV Anti-Static Protection)	
Network Protocol	TCP/IP; IPv4/v6; ICMP; HTTP; HTTPS; FTP; DHCP; DNS; DDNS; RTP; RTSP; RTCP; PPPoE; NTP; SMTP; UDP; Qos; 802.1x	
ONVIF Version	ONVIF 2.4 (Profile S/T/G)	
P2P	Support	
Power Supply	DC12V±10%, 1000mA; Built-in POE, Support IEEE 802.3af	
Browser	IE8~11 / Chrome / Firefox / Safari	
Mobile Devices	iPhone / iPad / Android / Android Pad	

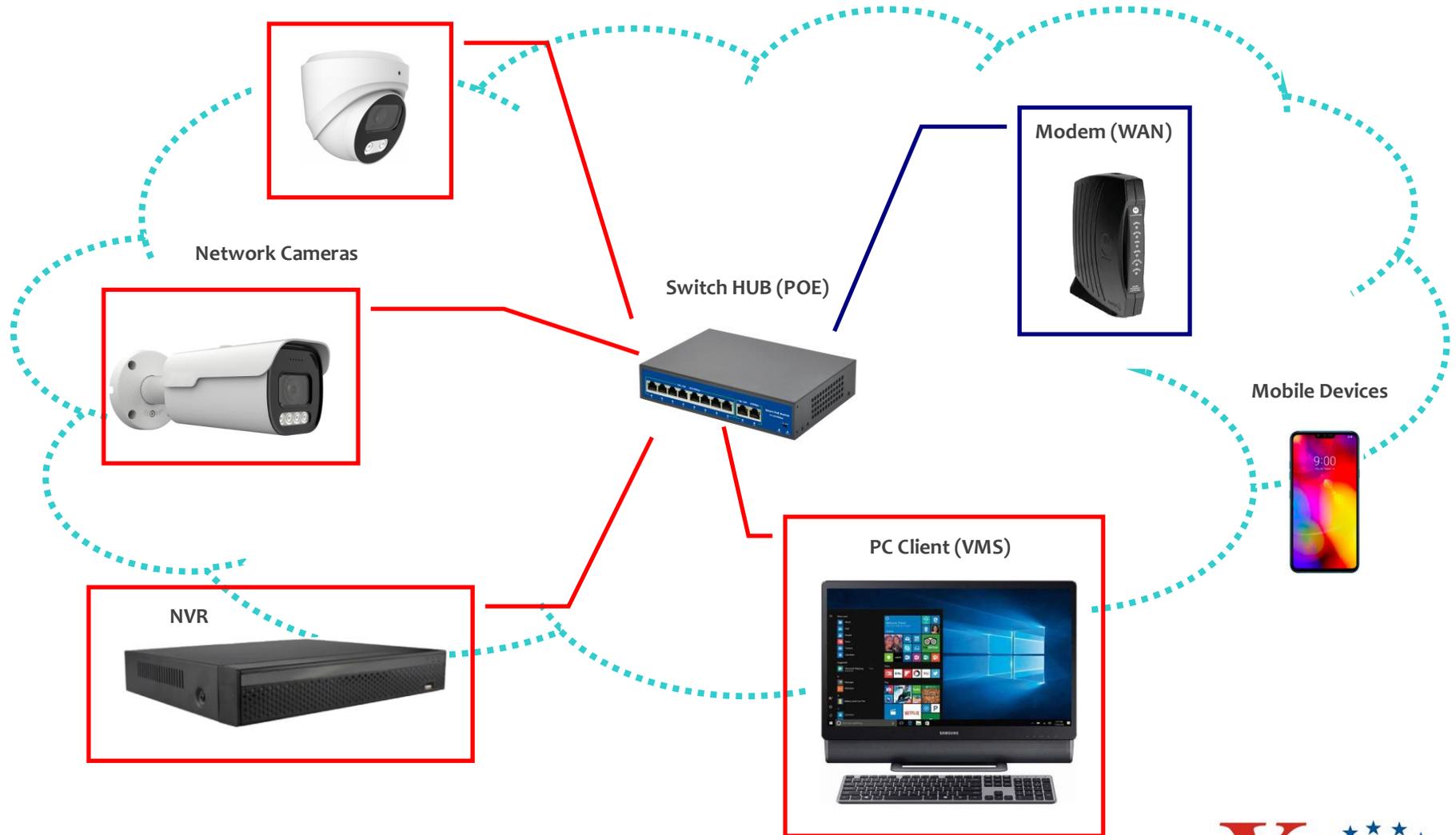


5MP

8MP

Model No.	NFCA5R2R	NFCA8R2R
Main Stream-1	2592x1944@30fps	3840x2160@20fps
Main Stream-2	2560x1440@30fps	2560x1440@20fps
Main Stream-3	1920x1080@30fps / 1280x720@30fps	1920x1080@20fps / 1280x720@20fps
Sub-Stream-1	1280x720@30fps	1280x720@20fps
Sub-Stream-2	720x480@30fps	720x480@20fps
Sub-Stream-3	NIL	
3 <sup>rd</sup> Stream	NIL	
Smart Detection	Base on Humanoid & Vehicle: Intrusion Detection / Line Cross Detection Based on Humanoid: Motion Detection / Loiter Detection / People Gather Detection / Enter Area	
Day & Night	Color; B/W (IR-cut)	
Image Configuration	Saturation / Brightness / Contrast / Sharpness / Mirror / 3DNR / White Balance / Anti-Flicker / HLC / Video Tampering / Defog	
ROI (Region of Interest)	Support	
Wide Dynamic Range	120dB	
Image Mask	3 Rectangular Areas	
Video Record	NVR / VMS / WEB / SD card (Optional)	
Memory Card Slot	Optional Internal (Support max. 1TB)	
Microphone	Optional	
Audio I/O	NIL	
Alarm I/O	NIL	
Housing	Material: Metal IP67 Weatherproof / Dimensions: 95(W) x 88(H) x 268(L)mm / 1,500g	
Operating Environment	Temperature: -10°C to 50°C (14°F to 122°F) / Humidity: 95% Non-condensing	

# Infrastructure



Slight specification variations may occur due to product enhancement to optimize functionality