

# 180° AI 4K IP IR Pano Camera

NSF3-78-RS

## Features

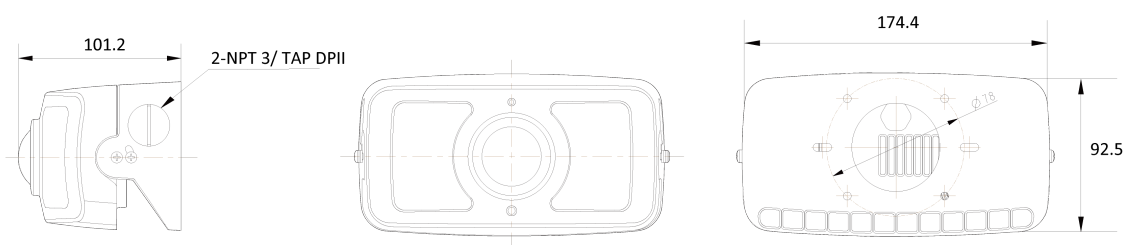
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- 4K 180-degree AI Camera
- Supports Intelligent Video Analysis Events (Line/Intrusion/Queue..)
- 1/1.8" High-Sensitivity Sensor
- Maximum Resolution 3840 (H) X 2160 (V) / 30fps
- Horizontal Field of View 180 degrees / 180-degree Fisheye Lens
- Day & Night (ICR) / IR Visible Distance 31 meters
- Backlight Compensation (WDR) / 3DNR
- SD/SDHC/SDXC Memory Slot
- PoE IEEE 802.3af/Class3
- IP67/IK10
- Built-in Mic



## Dimension (mm)

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## Specification

### Video

Image Sensor	1/1.8" 8.48M(STV2) CMOS
Channels	1
Total Pixel	3856(H) X 2200(V)
Max Resolution	3840(H) X 2160(V)
MIN. Illumination	COLOR: 0.15Lux BW: 0Lux with IR
Only installer Video Output	1 [CVBS 1.0V p-p (75Ω)]
S/N(signal/noise) Ratio	50dB
Scanning Mode	Progressive Scan

### Lens

Focal Length	2.3mm
Aperture	F2.8
Lens Type	Fixed
IRIS Type	Auto Exposure
Horizontal Angle	Over H:180° / V:90°
Pan / Tilt / Zoom	Zoom :Fixed

### Operational

Shutter Speed	Auto / Manual (1/15 ~ 1/32000) Anti-Flicker Slow Shutter(1/2,1/3,1/5,1/6,1/7.5, 1/10)
Auto Gain Control (AGC)	Auto
Day & Night	TDN (True Day & Night)
Digital Noise Reduction	3D DNR
Wide Dynamic Range (WDR)	WDR(2x)
Dynamic Range	120dB or above
LEDs	H4IR
LED Distance	100ft(31m)
Privacy Zone	No
Function	Motion-Detection LDC Mirror&Flip Auto White Balance

### Intelligent Video Analytic

AI Intelligent Video Analytic	Yes
Video analytics	Intrusion Detection Zones&lines Tamper Detection Appear Filter Disappear Filter Dwell Filter Enter Filter Exit Filter Stopped Filter Counting Counting Lines Object Color Direction Filter Logical Rules Tailgating Filter DL People Tracker DL Object Tracker Metadata

Encoder (video & audio)

Video Compression	H.264 H.265 MJPEG
Support Resolution	H.265 : 3840x2160/2560x1440/1920x1080/1280x720/704x576/704x480/640x360/352x288/352x240 H.264 : 3840x2160/2560x1440/1920x1080/1280x720/704x576/704x480/640x360/352x288/352x240 MJPEG : 1920x1080/1280x720/768x432/704x576/704x480/640x360/352x288/352x240
Intelligent Codec	Yes
Multiple Profile Streaming Performance	Triple Streaming(3rd Only MJPEG)
Video BitRate	100Kbps~25Mbps
Bitrate Control	Multi Streaming CBR/VBR at H.264,H.265 (Controllable frame rate and Bandwidth)
Video Bitrate extra comment	Multi-rate for Preview and Recording
Audio Compression	G.711 ulaw
Special Feature	Dynamic ROI(Region of Interest)

I/O & Event

Audio In / Out	Choose Mic or 1 Line Input[1.0Vrms, 3K ohm] / 1 Line Output
Alarm In / Out	1 Line/1 Line
Mic	Yes
Event Trigger	Motion Alarm Network Disconnection Temperature Critical Illegal Login Schedule Sensor Detection
Event Notification	FTP E-Mail Alarm Out SD Card

Network

Ethernet	RJ45(1000Base-T(1Gbps))
Protocol	TCP/IP UDP AutoIP RTP(UDP/TCP) RTSP NTP HTTP HTTPS SSL DNS DDNS DHCP FTP SMTP ICMP SNMPv1/v2/v3(MIB-2) ONVIF
Security	HTTPS(SSL) IP filtering 802.1x Digest Authentication
Application Programming I/F	CGI API ONVIF
Web viewer	MS Edge® Google Chrome®
Support languages	English Korean Japanese Vietnamese
Edge storage	Micro SD Micro SDHC Micro SDXC
SD Card Socket	1

Electrical

Power Requirement	Adaptor is not included DC12V PoE IEEE 802.3af Class3
Power consumption	DC Max: 9.6W(800mA) PoE Max: 11.6W(242mA)

Environmental

Operating Temperature	-20°C ~ 50°C
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Environmental

Cold Start	No
Operating Humidity	10-90% RH(Non-Condensing)
Vandal Proof Casing	IK10
IP Rating	IP67
Other Certification	FCC CE ROHS UL KC

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Mechanical

Housing Model	SF3
Housing	Outdoor Fisheye Specialty
Material	Aluminum-Die Casting
Color	White
Dimensions (W x D x H)	174.2mm 101.2mm 92.3mm
Weight	1.13kg