Hanwha Vision

Network Bullet

ANO-L7022R
4MP IR Bullet Camera

Key Features

- 4MP resolution, Up to 30fps(H.265/H.264)
- Color : 0.1Lux (F1.6, 1/30sec), B/W : 0Lux (IR LED On)
- 4mm lens w/ 78.2° HFoV
- IR viewable length: 25m
- Day & Night (ICR), WDR (120dB)
- H.265, H.264, MJPEG, Multiple streaming supported
- Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering
- Hallway view (90-/270-), LDC support, WiseStream II
- Micro SD/SDHC/SDXC memory slot (Max. 128GB)
- IP66

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

![Hanwha Vision]

ANO-L7022R
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Specifications

Video

Imaging Device	1/3" CMOS
Resolution	2560 x 1440, 1920 x 1080, 1280 x 960, 1280 x 720, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps(@4MP Max. 2fps)
Min. Illumination	Color : 0.13Lux (F1.6, 1/30sec) B/W : 0Lux (IR LED On)

Lens

Focal Length (Zoom Ratio)	4mm fixed focal
Max. Aperture Ratio	F1.6
Angular Field of View	H: 79° / V: 43° / D: 92°
Min. Object Distance	1.7m(5.6ft)
Focus Control	Fixed

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	0°~360° / 0°~100° / 0°~360°

Operational

Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR
Motion Detection	4ea, polygonal zones
Privacy Masking	6ea, rectangular zones
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum/Maximum/Anti flicker (1/5~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Motion detection, Tampering, Defocus detection , Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing/Direction)
Alarm Triggers	Analytics, Network disconnect
Alarm Events	When alarm trigger occurred - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover(PTZ preset)
Light Type	IR LED (850nm)

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Light Viewable Length	25m(82.02ft)

Network

Ethernet	RJ-45 (10/100BASE-T)
Video Compression	H.265/H.264 : Main/High, MJPEG
Smart Codec	Manual (5ea area), WiseStream II
Video Quality Adjustment	H.265/H.264: Target bitrate level control MJPEG: Quality level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(6 users) / Multicast Multiple streaming (Up to 3 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API)

Security

OS / Firmware Protect	Firmware encryption
User authentication	Digest Authentication, Prevent brute-force attack
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Access Control	Access control based on IP address
Data Protect	Authentication information encryption, ZIP compression encryption
Audit	User Access/System/Event log management
Device ID	Device Certificate(Hanwha Private Root CA)
Secure Storage	SDcard partition encrypt

General

Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot 128GB
Memory	512MB RAM, 256MB Flash

Environmental & Electrical

Operating Temperature / Humidity	-30°C~+55°C(-22°F ~ +131°F) / 0~95% RH
Storage Temperature / Humidity	-30°C ~ +55°C (-22°F~+131°F) / 0~95% RH
Certification	IP66
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	Max 7.5W, typical 5.7W

Mechanical

Color / Material	White / Plastic
RAL Code	RAL9003
Product Dimensions / Weight	ø78.0x262.0mm(ø3.07x10.31"), 390g(0.86lb)

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	62.9m(206.33ft)
Observe (63PPM/ 19PPF)	25.2m(82.53ft)
Recognize (125PPM/ 38PPF)	12.6m(41.27ft)

| Identify (250PPM/ 76PPF) | 6.3m(20.63ft) |