Hanwha Vision

Network   Bullet

LNO-6012R
2MP IR Bullet Camera

Key Features

- Maximum 2MP resolution
- Color: 0.03Lux(F2.0, 1/30sec) BW : 0Lux (IR LED on)
- 2.8mm fixed focal
- Maximum 30fps@2MP all resolutions (H.264)
- H.264, MJPEG codec supported, Multiple streaming
- Day & Night (ICR), WDR (120dB)
- Tampering, Motion detection
- Micro SD/SDHC memory slot (32GB), PoE
- Hallway view (90°/270°), WiseStreamII support
- IR viewable length 30m(98.43ft)
- IP66 support

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Specifications

Video	
Imaging Device	1/2.8" CMOS
Resolution	1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.264: Max. 30fps/25fps(60Hz/50Hz)(WDR off) H.264: Max. 15fps/12fps(60Hz/50Hz)(WDR on) MJPEG: Max. 10fps(@2MP Max. 2fps)
Min. Illumination	Color: 0.03Lux(F2.0, 1/30sec) BW : 0Lux (IR LED on)

Lens	
Focal Length (Zoom Ratio)	2.8mm fixed focal
Max. Aperture Ratio	F2.0
Angular Field of View	H: 114° / V: 62° / D: 135°
Min. Object Distance	0.5m(1.64ft)
Focus Control	Fixed

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

Operational	
Camera Title	Displayed up to 15 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR
Motion Detection	4ea, rectangler 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 (2~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Motion detection, Tampering
Alarm Triggers	Analytics
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
Light Type	IR LED (850nm)
Light Viewable Length	30m(98.43ft)

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.

Network

Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.264: Main/Baseline/High, MJPEG
Smart Codec	WiseStream II
Bitrate Control	H.264: 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, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour
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
Edge Storage	Micro SD/SDHC 1slot 32GB
Memory	512MB RAM, 256MB Flash

Environmental & Electrical

Operating Temperature / Humidity	-30°C~+55°C(-22°F~+131°F) / 0~90% RH * Start up should be done at above -20°C(-4°F)
Storage Temperature / Humidity	-30°C +55°C(-22°F ~ +131°F) / 0~90% RH
Certification	IP66
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	Max 6.4W, Typical 5.0W

Mechanical

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

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	25.1m(82.28ft)
Observe (63PPM/ 19PPF)	10.0m(32.91ft)
Recognize (125PPM/ 38PPF)	5.0m(16.46ft)
Identify (250PPM/ 76PPF)	2.5m(8.23ft)

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CAD

Unit:mm [inch]

147.8 [5.82]

Ø78 [3.07"]

131.3 [5.17]   114.2 [4.5]

245.5 [9.67"]

3- Ø5.5[0.22"] HOLES

120°   120°

Ø73.9 [2.91"]   Ø59 [2.32"]

2	LNO-6012R 6022R 6032R 6072R	'19.08.12
1	LNO-6070R	'17.11.16
No.	MODEL NAME	DATE

Unit:mm[inch]   SCALE:1/1   Hanwha Techwin

A2

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