



Network

Bullet

# QNO-7012R

4MP IR Bullet Camera



## Key Features

- Maximum 4MP resolution
- Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
- 2.8mm fixed focal
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- Hallway view (90°/270°), LDC support
- Micro SD/SDHC/SDXC memory slot (128GB)
- IR viewable length 20m (65.62ft)
- IP66, IK10, PoE, 12VDC

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## Specifications

Video	
Imaging Device	1/3" CMOS
Resolution	2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps (@4MP Max. 2fps)
Min. Illumination	Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation
Lens	
Focal Length (Zoom Ratio)	2.8mm fixed focal
Max. Aperture Ratio	F2.0
Angular Field of View	H: 108°, V: 60°, D: 122°
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, SDDR
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 I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover(PTZ preset)

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

**QNO-7012R**

Audio In	Selectable(mic in/line in)
Light Type	IR LED (850nm)
Light Viewable Length	20m (65.62ft)
<b>Network</b>	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression	H.265/H.264 : Main/High, MJPEG
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps
Smart Codec	Manual (5ea area), WiseStream II
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)
<b>Security</b>	
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
<b>General</b>	
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
<b>Environmental &amp; Electrical</b>	
Operating Temperature / Humidity	-40°C~+55°C (-40°F ~ +131°F) / 0~95% RH *Start up should be done at -30°C or above
Storage Temperature / Humidity	-40°C~+60°C (-40°F~+140°F) / 0~95% RH
Certification	IP66, IK10
Input Voltage	PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE: Max 10.7W, typical 8W 12VDC: Max 9.1W, typical 6.8W
<b>Mechanical</b>	
Color / Material	Dark grey / Aluminum
Product Dimensions / Weight	ø70.0x246.0mm(ø2.76x9.69"), 700g(1.54 lb)
Compatible Conduit hole / Gangbox	Single, Double, 4"Octagon
Backbox	SBO-100B1, SBO-147B

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**DORI (EN62676-4 standard)**

Detect (25PPM/ 8PPF)	37.5m(123.17ft)
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Observe (63PPM/ 19PPF)	15.0m(49.27ft)
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Recognize (125PPM/ 38PPF)	7.5m(24.63ft)
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Identify (250PPM/ 76PPF)	3.8m(12.32ft)
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CAD

Unit:mm [inch]

