



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
- Maximum 30fps@4MP all resolutions (H.265/H.264)
- 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	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 at 4M all resolutions, MJPEG : Max. 15fps
Min. Illumination	Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
Video Out	CVBS : 1.0 Vpp/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 : 107.5, V : 59.7, D : 122.0
Focus Control	Fixed

#### 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	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line
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
Audio In	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
IR Viewable Length	20m (65.62ft)

#### Network

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 (Sea area), WiseStream II

<b>Bitrate Control</b>	H.264/H.265 : CBR or VBR MJPEG : VBR
<b>Streaming</b>	Unicast (6 users) / Multicast Multiple streaming (Up to 3 profiles)
<b>Protocol</b>	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
<b>Security</b>	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication
<b>Application Programming Interface</b>	ONVIF Profile S/G/T, SUNAPI (HTTP API)

## General

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

## Environmental & Electrical

<b>Operating Temperature / Humidity</b>	-40C~+55C (-40F~+131F) / Less than 95% RH * Start up should be done at -30C or above
<b>Storage Temperature / Humidity</b>	-40C~+60C (-40F~+140F) / Less than 95% RH
<b>Certification</b>	IP66, IK10
<b>Input Voltage</b>	PoE(IEEE802.3af, Class3), 12VDC
<b>Power Consumption</b>	PoE: Max 10.7W, typical 8W 12VDC: Max 9.1W, typical 6.8W

## Mechanical

<b>Color / Material</b>	Dark grey / Aluminum
<b>Product Dimensions / Weight</b>	Ø70.0 x 246.0mm (Ø2.76 x 9.69"), 700g (1.543 lb)
<b>Compatible Conduit hole / Gangbox</b>	Single, Double, 4" Octagon
<b>Backbox</b>	SBO-100B1

## DORI (EN62676-4 standard)

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

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CAD

Unit: mm [inch]

