Q series QNO-6022R







QNO-6022R

2M H.265 IR Bullet Camera











Key Features

- Max. 2megapixel (1920 x 1080) resolution
- 0.1Lux (Color), OLux (B/W, IR LED on)
- 4mm fixed lens
- Max. 30fps@2M 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 (Max. 128GB)
- IR viewable length 25m
- IP66, IK10, PoE, 12VDC

Compatible Devices





SBP-302PM

SBO-100B1



QNO-6022R

2M H.265 IR Bullet Camera







Specifications

Video Imaging Device 1/2.8" CMOS Resolution 1920x1080, 1280v760, 1280v720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 Max. Framerate H2.65/H2.64: Max. 30fps/25fps(60Hz/50Hz) Min. Illumination Color: O.03.Lux/F16, 1/30sec) BWO U.u.X (IR.ED on) Video Out CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation Lens Focal Length (Zoom Ratio) 4.0mm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H8.8", V: 47" / D: 105" Min. Object Distance O.5m (1.64ft) Focus Control Fixed Pan / Tilt / Rotate Pan / Tilt / Rotate Range O"-360" 0"-100" / 0"-360" Operational Camera Title Displayed up to 85 characters Day & Night Auto(ICR) Backlight Compensation BLC, WDR, SSDR Vide 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 (1/5-1/12000sec) Video Rotation File, Miror, Network disconnect, Alarm input Alarm I/O Input fear output Nortication via e-mail Notication via e-mail Noticat		
Resolution 1920x1080, 1280x960, 1280x720, 800x400, 800x448, 720x576, 720x480, 640x480, 640x360 Max. Framerate H. 265/H.264k. Max. 30fps/25fps(60Hz/50Hz) Min. Illumination Color: 0.03Lux[F1.61, 1/30sec) BW: OLux(IR LED on) Video Out Video Out CVBS: 1.0 Vp−p / 75Ω composite, 720x480(N), 720x576(P) for installation Lens CVBS: 1.0 Vp−p / 75Ω composite, 720x480(N), 720x576(P) for installation Focal Length (Zoom Ratio) 4.0mm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H: 88° /V: 47° / D: 105° Min. Object Distance 0.5m (1.64ft) Focus Control Fixed Pan / Tilt / Rotate 0°-360° / 0°-100° / 0°-360° Operational Camera Title 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 <	Video	
Max. Framerate H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps (602MP Max. 4fps) Min. Illumination Color: O3Lux/FL 6, 1/30sec) BW: OLux(IR LED on) Video Out CVBS: 1.0 Vp-p / 750 composite, 720x480(N), 720x576(P) for installation Lens Focal Length (Zoom Ratio) 4.0mm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H: 88° / V: 47° / D: 105° Min. Object Distance O.5m (1.64ft) Focus Control Fixed Pan / Tilt / Rotate Pan / Tilt / Rotate Range O°-360° / O°-100° / O°-360° Operational Camera Title Displayed up to 85 characters Day & Night Auto(ICR) Backlight Compensation BLC. WDR, SSDR Wide Dynamic Range 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 filicker (1/5-1/12.000sec) Video Rotation Alarm I/O Input 1ea / Output 1ea Alarm I/O Alarm Events Alarm Events Pile upload via FTP and e-mail SDIS-DEC/SDXC or NAS recording at event triggers Alarm Output	Imaging Device	1/2.8" CMOS
MJPEG: Max. 15fps (@2MP Max. 4fps) Min. Illumination Color: O.O.SLux(F1.6, 1/30sec) BWi: O.Lux(R1.ED on) Video Out CVBS: 1.0 Vp-p / 750. composite, 720x480(N), 720x576(P) for installation Lens Focal Length (Zoom Ratio) A.Omm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H: 88° /V: 47° / D: 105° Min. Object Distance Focus Control Fixed Pan / Tilt / Rotate Pan / Tilt / Rotate Range O°-360° / O°-100° / O°-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 Motion Detection 4ea, polygonal zones Privacy Masking 6ea. rectangular zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Electronic Shutter Speed Minimum / Maximum / Anti filicker (1/5-1/12.000sec) Video Rotation Alarm I/O Input 1ea / Output 1ea Alarm I/O Alarm Events Minimum Events Alarm Events Alarm Events Minimum Events Alarm Events Minimum Lavent Lavent Higgers Alarm Events Minimum Lavent Lavent Higgers Alarm Events Minimum Lavent Lavent Higgers Alarm Events	Resolution	1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
BW: OLux(IR LED on) Video Out CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation	Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps (@2MP Max. 4fps)
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Angular Field of View H: 88° / V: 47° / D: 105° 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 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 Filip, 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 Alarm Events File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Focal Length (Zoom Ratio)	4.0mm fixed focal
Min. Object Distance O. 5m (1.64ft) Focus Control Fixed Pan / Tilt / Rotate Pan / Tilt / Rotate Range O°-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 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	Max. Aperture Ratio	F1.6
Focus Control Pan / Tilt / Rotate Pan / Tilt / Rotate Range O°-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 Frivacy 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 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	Angular Field of View	H: 88° / V: 47° / D: 105°
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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 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	Operational	
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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	Day & Night	Auto(ICR)
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Backlight Compensation	BLC, WDR, SSDR
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 Analytics, Network disconnect, Alarm input File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Wide Dynamic Range	120dB
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	Digital Noise Reduction	SSNR
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Motion Detection	4ea, polygonal zones
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Privacy Masking	6ea, rectangular zones
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	Gain Control	Low / Middle / High
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	White Balance	ATW / AWC / Manual / Indoor / Outdoor
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	LDC	Support
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 File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
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	Video Rotation	Flip, Mirror, Hallway view(90-/270-)
Alarm Triggers Analytics, Network disconnect, Alarm input File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Analytics	
Alarm Events File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Alarm I/O	Input 1ea / Output 1ea
Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output	Alarm Triggers	Analytics, Network disconnect, Alarm input
Handover(PTZ preset)	Alarm Events	Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers

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.



Audio In	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Light Type	IR LED (850nm)
Light Viewable Length	25m(82.02ft)
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	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, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
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, Swedish, Portuguese, Czech, Polish, Turkish, Dutch
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) / 0~90% RH * Start up should be done at above -20°C
Storage Temperature / Humidity	-30°C~+60°C(-22°F ~ +140°F) / 0~90% RH
Certification	IP66, IK10
Input Voltage	PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE: Max 7.00W, typical 5.20W 12VDC: Max 6.10W, typical 4.50W
Mechanical	
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
Timpation Contractions / Guilgook	

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Backbox	SBO-100B1, SBO-147B
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	40.0m(131.36ft)
Observe (63PPM/ 19PPF)	16.0m(52.54ft)
Recognize (125PPM/ 38PPF)	8.0m(26.27ft)
Identify (250PPM/ 76PPF)	4.0m(13.14ft)



QNO-6022R

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CAD Unit:mm [inch]

