

# QNV-7010R/7020R/7030R

4M Vandal-Resistant Network IR Dome Camera



QNV-7010R

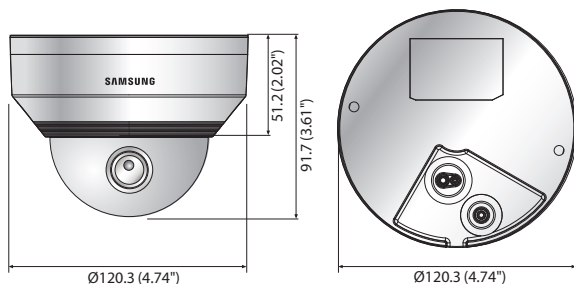
QNV-7020R/7030R

## Key Features

- Max. 4megapixel resolution
- Built-in 2.8mm fixed lens (QNV-7010R)  
3.6mm fixed lens (QNV-7020R)  
6mm fixed lens (QNV-7030R)
- Max. 20fps@4M, Max. 30fps@under 2M (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- micro SD/SDHC/SDXC memory slot (Max. 128GB), PoE / 12V DC
- IR viewable length 20m (QNV-7010R), 25m (QNV-7020R)  
30m (QNV-7030R)
- Hallway view, WiseStream support, IP66, IK10
- LDC support (Lens Distortion Correction)

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



SBP-122HM SBP-300LM SBP-300CM SBP-300WM1 SBP-300WM SBP-300PM SBP-300KM

## QNV-7010R/7020R/7030R

| VIDEO                             |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                    | 1/3" 4M CMOS                                                                                                                                                                                                                                                                                                                                                                                                          |
| Total Pixels                      | 2,720(H) x 1,536(V)                                                                                                                                                                                                                                                                                                                                                                                                   |
| Effective Pixels                  | 2,688(H) x 1,520(V)                                                                                                                                                                                                                                                                                                                                                                                                   |
| Scanning System                   | Progressive                                                                                                                                                                                                                                                                                                                                                                                                           |
| Min. Illumination                 | Color : 0.5Lux (QNV-7010R), 0.4Lux (QNV-7020R), 0.3Lux (QNV-7030R)<br>B/W : 0Lux (IR LED on)                                                                                                                                                                                                                                                                                                                          |
| LENS                              |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Focal Length (Zoom Ratio)         | 2.8mm fixed (QNV-7010R), 3.6mm fixed (QNV-7020R), 6mm fixed (QNV-7030R)                                                                                                                                                                                                                                                                                                                                               |
| Max. Aperture Ratio               | F2.0 (QNV-7010R), F2.2 (QNV-7020R/7030R)                                                                                                                                                                                                                                                                                                                                                                              |
| Angular Field of View             | H : 111.0° / V : 63.0° / D : 133.0° (QNV-7010R)<br>H : 81.0° / V : 45.0° / D : 95.0° (QNV-7020R)<br>H : 53.0° / V : 31.0° / D : 62.0° (QNV-7030R)                                                                                                                                                                                                                                                                     |
| Lens Type                         | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mount Type                        | Board type                                                                                                                                                                                                                                                                                                                                                                                                            |
| PAN / TILT / ROTATE               |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pan / Tilt / Rotate Range         | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                                                                                                                                                                                                                                                                                                                      |
| OPERATIONAL                       |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IR Viewable Length                | 20m (65.62ft) : QNV-7010R, 25m (82.02ft) : QNV-7020R, 30m (98.43ft) : QNV-7030R                                                                                                                                                                                                                                                                                                                                       |
| Camera Title                      | Off / On (Displayed up to 20 characters per line)<br>- W/W : English / Numeric / Special characters<br>- China : English / Numeric / Special / Chinese characters<br>- Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution                                                                                                                        |
| Day & Night                       | True Day & Night                                                                                                                                                                                                                                                                                                                                                                                                      |
| Backlight Compensation            | Off / BLC / WDR                                                                                                                                                                                                                                                                                                                                                                                                       |
| Wide Dynamic Range                | 120dB                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Digital Noise Reduction           | SSNR (Off / On)                                                                                                                                                                                                                                                                                                                                                                                                       |
| Motion Detection                  | Off / On (4ea polygonal zones)                                                                                                                                                                                                                                                                                                                                                                                        |
| Privacy Masking                   | Off / On (6ea rectangular zones)                                                                                                                                                                                                                                                                                                                                                                                      |
| Gain Control                      | Off / Low / Middle / High                                                                                                                                                                                                                                                                                                                                                                                             |
| White Balance                     | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                                                                                                                                                                                                                 |
| LDC (Lens Distortion Correction)  | Off / On (5 levels with min / max)                                                                                                                                                                                                                                                                                                                                                                                    |
| Electronic Shutter Speed          | Minimum / Maximum / Anti flicker                                                                                                                                                                                                                                                                                                                                                                                      |
| Flip / Mirror                     | Flip / Mirror / Hallway view                                                                                                                                                                                                                                                                                                                                                                                          |
| Intelligent Video Analytics       | Motion detection with metadata, Tampering, Defocus detection                                                                                                                                                                                                                                                                                                                                                          |
| Alarm I/O                         | Input 1 / Output 1                                                                                                                                                                                                                                                                                                                                                                                                    |
| Alarm Triggers                    | Motion detection, Tampering detection, SD card error, NAS error, Alarm input, Defocus detection                                                                                                                                                                                                                                                                                                                       |
| Alarm Events                      | File upload via FTP and E-mail, Local storage recording at event, Notification via E-mail, External output                                                                                                                                                                                                                                                                                                            |
| Pixel Counter                     | Support (Plug-in viewer only)                                                                                                                                                                                                                                                                                                                                                                                         |
| NETWORK                           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Ethernet                          | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                                                                                                                                  |
| Video Compression Format          | H.265, H.264, MJPEG                                                                                                                                                                                                                                                                                                                                                                                                   |
| Resolution                        | 2592 x 1520, 2560 x 1440 (16:9), 2304 x 1296, 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 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. 20fps at 4M, Max. 30fps at under 2M<br>MJPEG : Max. 15fps                                                                                                                                                                                                                                                                                                                                          |
| Smart Codec                       | WiseStream                                                                                                                                                                                                                                                                                                                                                                                                            |
| Video Quality Adjustment          | H.265/H.264 : Target bitrate level control, MJPEG : Quality level control                                                                                                                                                                                                                                                                                                                                             |
| Bitrate Control Method            | H.265/H.264 : CBR or VBR, MJPEG : VBR                                                                                                                                                                                                                                                                                                                                                                                 |
| Streaming Capability              | Multiple streaming (Up to 3 profiles)                                                                                                                                                                                                                                                                                                                                                                                 |
| Audio I/O                         | Line in                                                                                                                                                                                                                                                                                                                                                                                                               |
| Audio Compression Format          | G.711 u-law / G.726 selectable<br>G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps                                                                                                                                                                                                                                                                                                              |
| Audio Communication               | Uni-directional audio                                                                                                                                                                                                                                                                                                                                                                                                 |
| IP                                | IPv4, IPv6                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protocol                          | 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                                                                                                                                                                                                                                       |
| Security                          | HTTPS(SSL) login authentication, Digest login authentication<br>IP address filtering, User access log, 802.1x authentication                                                                                                                                                                                                                                                                                          |
| Streaming Method                  | Unicast / Multicast                                                                                                                                                                                                                                                                                                                                                                                                   |
| Max. User Access                  | 6 users at unicast mode                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage                           | micro SD/SDHC/SDXC (Max. 128GB), NAS<br>- Motion images recorded in the SD memory card can be downloaded<br>- Manual recording at local PC                                                                                                                                                                                                                                                                            |
| Application Programming Interface | ONVIF Profile S/G, SUNAPI (HTTP API)                                                                                                                                                                                                                                                                                                                                                                                  |
| Webpage Language                  | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Turkish, Polish, Czech, Dutch, Hungarian, Greek<br>Supported OS : Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11<br>Plug-in free Webviewer<br>- Supported Browser : Google Chrome 47, MS Edge 20<br>Plug-in Webviewer<br>- Supported Browser : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only |
| Web Viewer                        | SmartViewer                                                                                                                                                                                                                                                                                                                                                                                                           |
| Central Management Software       |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ENVIRONMENTAL                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operating Temperature / Humidity  | -30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH<br>* Start up should be done at above -20°C (-4°F)                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature / Humidity    | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH                                                                                                                                                                                                                                                                                                                                                                     |
| Ingress Protection                | IP66                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Vandal Resistance                 | IK10                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ELECTRICAL                        |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Input Voltage / Current           | PoE (IEEE802.3af, Class3) / 12V DC                                                                                                                                                                                                                                                                                                                                                                                    |
| Power Consumption                 | Max. 7W (PoE), Max. 5.8W (12V DC) : QNV-7010R<br>Max. 6.8W (PoE), Max. 5.7W (12V DC) : QNV-7020R/7030R                                                                                                                                                                                                                                                                                                                |
| MECHANICAL                        |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Color / Material                  | Ivory / Metal                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimensions (WxH)                  | Ø120.3 x 91.7mm (Ø4.74" x 3.61")                                                                                                                                                                                                                                                                                                                                                                                      |
| Weight                            | 490g (1.08 lb)                                                                                                                                                                                                                                                                                                                                                                                                        |

\* The latest product information / sepecification can be found at [hanwha-security.com](http://hanwha-security.com)