

# SNO-6011R

2M Network IR Bullet Camera

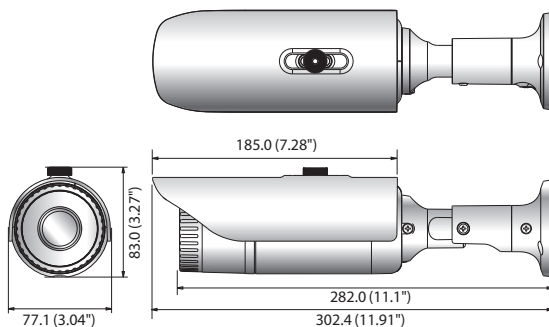


## Key Features

- Max. 2megapixel (1920 x 1080) resolution
- Built-in 3.8mm fixed lens
- H.264, MJPEG dual codec, Multiple streaming
- WDR (120dB), Defog
- Day & Night (ICR), Enhanced DIS
- micro SD/SDHC/SDXC memory slot
- Multi-crop streaming
- IR LED (16ea), PoE, IP66

## Dimensions

Unit : mm (inch)



\* Data recorded on an SD memory card may be lost or damaged by data access during power-off, mechanical shock, memory card detachment, or other operations. Data loss or damage can also occur when a memory card reaches end of life, which varies according to operational conditions. No guarantee is given against damage (including passive damage).

## SNO-6011RN/P

| VIDEO                             |                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                    | 1/2.8" 2.38M CMOS                                                                                                                                                                                                                                                                                             |
| Total Pixels                      | 1,952(H) x 1,236(V)                                                                                                                                                                                                                                                                                           |
| Effective Pixels                  | 1,944(H) x 1,224(V)                                                                                                                                                                                                                                                                                           |
| Scanning System                   | Progressive                                                                                                                                                                                                                                                                                                   |
| Min. Illumination                 | Color : 0.3Lux (F2.0, 50IRE), 0.03Lux (2sec, 50IRE), 0.08Lux (F2.0, 30IRE)<br>B/W : 0Lux (IR LED on), 0Lux (F2.0, 30IRE, IR LED on)                                                                                                                                                                           |
| S / N Ratio                       | 50dB                                                                                                                                                                                                                                                                                                          |
| Video Output                      | CVBS : 1.0Vpp / 75Ω composite, 704 x 480(N), 704 x 576(P)                                                                                                                                                                                                                                                     |
| LENS                              |                                                                                                                                                                                                                                                                                                               |
| Focal Length (Zoom Ratio)         | 3.8mm fixed                                                                                                                                                                                                                                                                                                   |
| Max. Aperture Ratio               | F2.0                                                                                                                                                                                                                                                                                                          |
| Angular Field of View             | H : 84.5° / V : 45.8° / D : 98.8°                                                                                                                                                                                                                                                                             |
| Min. Object Distance              | 0.5m (1.64ft)                                                                                                                                                                                                                                                                                                 |
| Focus Control                     | Manual                                                                                                                                                                                                                                                                                                        |
| Mount Type                        | Board-in type                                                                                                                                                                                                                                                                                                 |
| OPERATIONAL                       |                                                                                                                                                                                                                                                                                                               |
| IR LED                            | 16ea                                                                                                                                                                                                                                                                                                          |
| Viewable Length                   | 15m (49.21ft)                                                                                                                                                                                                                                                                                                 |
| Camera Title                      | Off / On (Displayed up to 45 characters)                                                                                                                                                                                                                                                                      |
| Day & Night                       | Auto (ICR) / Color / B/W                                                                                                                                                                                                                                                                                      |
| Backlight Compensation            | Off / BLC                                                                                                                                                                                                                                                                                                     |
| Wide Dynamic Range                | WDR 15fps 120dB                                                                                                                                                                                                                                                                                               |
| Contrast Enhancement              | SSDR (Off / On)                                                                                                                                                                                                                                                                                               |
| CAR (Color Aberration Reduction)  | Off / Low / Middle / High                                                                                                                                                                                                                                                                                     |
| Digital Noise Reduction           | SSNR III (2D+3D noise filter) (Off / On)                                                                                                                                                                                                                                                                      |
| Digital Image Stabilization       | Off / On                                                                                                                                                                                                                                                                                                      |
| Defog                             | Off / Auto / Manual                                                                                                                                                                                                                                                                                           |
| Motion Detection                  | Off / On (4ea 4 points polygonal zones)                                                                                                                                                                                                                                                                       |
| Privacy Masking                   | Off / On (32ea polygonal zones)                                                                                                                                                                                                                                                                               |
| Gain Control                      | Off / Low / Middle / High                                                                                                                                                                                                                                                                                     |
| White Balance                     | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                                                                                                         |
| Electronic Shutter Speed          | Auto / A.FLK / Manual (1/30 ~ 12,000sec)                                                                                                                                                                                                                                                                      |
| Flip / Mirror                     | Off / On                                                                                                                                                                                                                                                                                                      |
| Intelligent Video Analytics       | Tampering, Virtual line, Enter / Exit, (Dis)Appear, Face detection with metadata                                                                                                                                                                                                                              |
| Alarm I/O                         | Input 1ea                                                                                                                                                                                                                                                                                                     |
| Alarm Triggers                    | Motion detection, Tampering, Face detection, Video analytics, Alarm input                                                                                                                                                                                                                                     |
| Alarm Events                      | File upload via FTP and E-mail, Notification via E-mail, Local storage (SD/SDHC/SDXC) or NAS recording at Event (Alarm triggers)                                                                                                                                                                              |
| NETWORK                           |                                                                                                                                                                                                                                                                                                               |
| Ethernet                          | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                          |
| Video Compression Format          | H.264 (MPEG-4 part 10/AVC), MJPEG                                                                                                                                                                                                                                                                             |
| Resolution                        | 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 450, 640 x 480, 320 x 240, 320 x 180                                                                                                                                                                              |
| Max. Framerate                    | H.264 : Max. 30fps at all resolutions<br>MJPEG : 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 : Max. 15fps<br>800 x 600, 800 x 450, 640 x 480, 320 x 240, 320 x 180 : Max. 30fps                                                                                                 |
| Video Quality Adjustment          | H.264 : Compression level, Target bitrate level control, MJPEG : Quality level control                                                                                                                                                                                                                        |
| Bitrate Control Method            | H.264 : CBR or VBR, MJPEG : VBR                                                                                                                                                                                                                                                                               |
| Streaming Capability              | Multiple streaming (Up to 10 profiles)                                                                                                                                                                                                                                                                        |
| IP                                | IPv4, IPv6                                                                                                                                                                                                                                                                                                    |
| Protocol                          | TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, 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                          | HTPS (SSL) login authentication, Digest login authentication<br>IP address filtering, User access log, 802.1x authentication                                                                                                                                                                                  |
| Streaming Method                  | Unicast / Multicast                                                                                                                                                                                                                                                                                           |
| Max. User Access                  | 15 users at unicast mode                                                                                                                                                                                                                                                                                      |
| Edge Storage                      | micro SD/SDHC/SDXC<br>Motion images recorded in the SDXC/SDHC/SD memory card can be downloaded                                                                                                                                                                                                                |
| Application Programming Interface | ONVIF profile S, HTTP API (SUNAPI) 2.0, S/NP 1.2                                                                                                                                                                                                                                                              |
| Webpage Language                  | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Norwegian, Finnish                                                                                                  |
| Web Viewer                        | Supported OS : Windows XP / VISTA / 7 / 8 / 8.1, MAC OS X 10.7<br>Supported Browser : Microsoft Internet Explorer (Ver. 11 ~ 8)<br>Mozilla Firefox (Ver. 19 ~ 9) * Windows only<br>Google Chrome (Ver. 25 ~ 15) * Windows only<br>Apple Safari (Ver. 6.0.2 (Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only |
| Central Management Software       | SmartViewer                                                                                                                                                                                                                                                                                                   |
| ENVIRONMENTAL                     |                                                                                                                                                                                                                                                                                                               |
| Operating Temperature / Humidity  | -30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH<br>* Start up should be done at above -10°C (+14°F)                                                                                                                                                                                                         |
| Storage Temperature / Humidity    | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH                                                                                                                                                                                                                                                             |
| Ingress Protection                | IP66                                                                                                                                                                                                                                                                                                          |
| ELECTRICAL                        |                                                                                                                                                                                                                                                                                                               |
| Input Voltage / Current           | PoE (IEEE802.3af)                                                                                                                                                                                                                                                                                             |
| Power Consumption                 | Max. 8.5W                                                                                                                                                                                                                                                                                                     |
| MECHANICAL                        |                                                                                                                                                                                                                                                                                                               |
| Color / Material                  | Dark gray / Plastic                                                                                                                                                                                                                                                                                           |
| Dimensions (WxHxD)                | 77.1 x 83.0 x 302.4mm (3.04" x 3.27" x 11.91")                                                                                                                                                                                                                                                                |
| Weight                            | 560g (1.23 lb)                                                                                                                                                                                                                                                                                                |

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