

# SNO-8081R

5Megapixel Network IR Bullet Camera

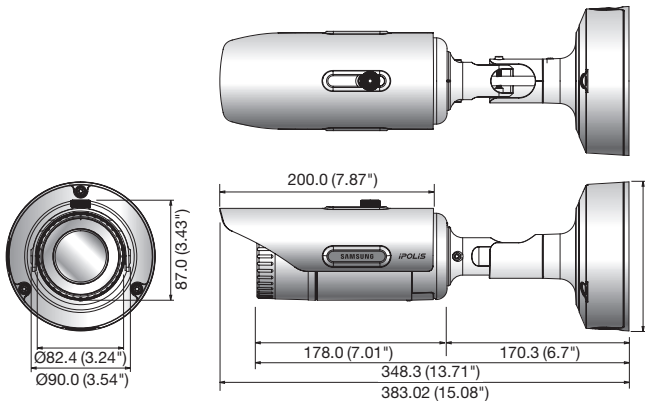


## Key Features

- Max 5M (2592 x 1944) resolution
- 30fps@5M, 60fps@2M
- 0.15Lux@F1.3 (Color), 0Lux (B/W : IR LED on)
- 3.93 ~ 9.4mm (2.4x) motorized varifocal lens
- H.265, H.264, MJPEG support
- Day & Night (ICR), WDR (120dB), Simple focus, P-Iris
- Tampering, Audio detection
- SD/SDHC/SDXC memory slot, NAS, Local PC support
- Hallway view (Rotate 90° / 270°)
- LDC (Lens Distortion Correction)
- IP66, IK10, Bi-directional audio support

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



## SNO-8081RN/P

|                                        |                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VIDEO</b>                           |                                                                                                                                                                                                                                                                                                                                                  |
| Imaging Device                         | 1/1.8" 6M CMOS                                                                                                                                                                                                                                                                                                                                   |
| Total Pixels                           | 3,096(H) x 2,094(V)                                                                                                                                                                                                                                                                                                                              |
| Effective Pixels                       | 2,616(H) x 1,976(V)                                                                                                                                                                                                                                                                                                                              |
| Scanning System                        | Progressive                                                                                                                                                                                                                                                                                                                                      |
| Min. Illumination                      | Color : 0.3Lux (1/30sec, F1.3, 50IRE), 0.005Lux (2sec, F1.3, 50IRE)<br>0.15Lux (1/30sec, F1.3, 30IRE), 0.003Lux (2sec, F1.3, 30IRE)<br>B/W : 0Lux (IR LED on)                                                                                                                                                                                    |
| S / N Ratio                            | 50dB                                                                                                                                                                                                                                                                                                                                             |
| Video Output                           | CVBS : 1.0 Vpp / 75Ω composite, 704 x 480(N), 704 x 576(P), for installation<br>DIP connector type                                                                                                                                                                                                                                               |
| <b>LENS</b>                            |                                                                                                                                                                                                                                                                                                                                                  |
| Focal Length (Zoom Ratio)              | 3.93 ~ 9.4mm (2.4x) motorized varifocal                                                                                                                                                                                                                                                                                                          |
| Max. Aperture Ratio                    | F1.3                                                                                                                                                                                                                                                                                                                                             |
| Angular Field of View                  | H : 93.4°(Wide) ~ 39.2°(Tele) / V : 68.1°(Wide) ~ 29.3°(Tele)                                                                                                                                                                                                                                                                                    |
| Min. Object Distance                   | 0.5m (1.64ft)                                                                                                                                                                                                                                                                                                                                    |
| Focus Control                          | Simple focus (Motorized V/F) / Manual, Remote control via network (Manual, Simple focus)                                                                                                                                                                                                                                                         |
| Lens Type / Mount Type                 | DC auto iris, support P-Iris mode / Board-in type                                                                                                                                                                                                                                                                                                |
| <b>OPERATIONAL</b>                     |                                                                                                                                                                                                                                                                                                                                                  |
| Viewable Length                        | 30m (98.43ft), Smart IR                                                                                                                                                                                                                                                                                                                          |
| Camera Title                           | Off / On (Displayed up to 15 characters)                                                                                                                                                                                                                                                                                                         |
| Day & Night                            | Auto (ICR) / Color / B/W / External / Schedule                                                                                                                                                                                                                                                                                                   |
| Backlight Compensation                 | Off / BLC / WDR                                                                                                                                                                                                                                                                                                                                  |
| Wide Dynamic Range                     | 120dB                                                                                                                                                                                                                                                                                                                                            |
| Contrast Enhancement                   | SSDR (Samsung Super Dynamic Range) (Off / On)                                                                                                                                                                                                                                                                                                    |
| Digital Noise Reduction                | SSNR (2D+3D noise filter) (Off / On)                                                                                                                                                                                                                                                                                                             |
| Motion Detection                       | Off / On (4ea, Rectangle)                                                                                                                                                                                                                                                                                                                        |
| Privacy Masking                        | Off / On (6ea, Rectangle) - Color : Black / Blue / Red / Grey / White / Green                                                                                                                                                                                                                                                                    |
| Gain Control                           | Off / Low / Medium / High                                                                                                                                                                                                                                                                                                                        |
| White Balance                          | ATW / AWC / Manual / Indoor / Outdoor (Include mercury & Sodium)                                                                                                                                                                                                                                                                                 |
| LDC (Lens Distortion Correction)       | Off / On (Level auto control)                                                                                                                                                                                                                                                                                                                    |
| Electronic Shutter Speed               | Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)                                                                                                                                                                                                                                                                                               |
| Flip / Mirror                          | Off / On, Halfway : 90° / 270°                                                                                                                                                                                                                                                                                                                   |
| Intelligent Video Analytics            | Tampering, Audio detection - with metadata                                                                                                                                                                                                                                                                                                       |
| Alarm I/O                              | Input 1ea / Output 1ea                                                                                                                                                                                                                                                                                                                           |
| Alarm Triggers                         | Alarm input, Motion detection, Tampering, Audio detection, Network disconnect                                                                                                                                                                                                                                                                    |
| Alarm Events                           | File upload via FTP and E-mail, Notification via E-mail<br>Local storage (SD/SDHC/SDXC) or NAS recording at event triggers, External output Support                                                                                                                                                                                              |
| Pixel Counter                          | Support                                                                                                                                                                                                                                                                                                                                          |
| <b>NETWORK</b>                         |                                                                                                                                                                                                                                                                                                                                                  |
| Ethernet                               | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                                                             |
| Video Compression Format               | H.265 : Main, H.264 (MPEG-4 part 10/AVC) : Main / Baseline / High, MJPEG                                                                                                                                                                                                                                                                         |
| Resolution                             | 5M mode : 2592 x 1944, 2592 x 1464, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 480, 640 x 480, 320 x 240<br>2M mode : 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 720 x 480, 640 x 480, 320 x 240                                                       |
| Max. Framerate                         | 5M mode - H.265 / H.264 : 30fps in all resolutions<br>MJPEG : 2592 x 1944 ~ 2592 x 1464 : 2fps, 1920 x 1080 ~ 1600 x 1200 : 4fps<br>1280 x 1024 ~ 1024 x 768 : 5fps, 800 x 600 ~ 320 x 240 : 15fps<br>2M mode - H.265 / H.264 : 60fps in all resolutions<br>MJPEG : 1920 x 1080 : 4fps, 1280 x 1024 ~ 1024 x 768 : 5fps, 800 x 600 ~ 240 : 15fps |
| Smart Codec                            | Manual mode (Area-based : 4ea)                                                                                                                                                                                                                                                                                                                   |
| Video Quality Adjustment               | H.265 / H.264 : Compression level, 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) - Total 3 stream at the same time (Including recording stream)                                                                                                                                                                                                                                             |
| Audio In                               | Selectable (Mic in / Line in)<br>Supply voltage : 2.5V DC (4mA), Input impedance : approx. 2K Ohm                                                                                                                                                                                                                                                |
| Audio Out                              | Line out (3.5mm stereo mini jack), Max output level : 1Vrms                                                                                                                                                                                                                                                                                      |
| Audio Compression Format               | G.711 u-law/G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz<br>G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps                                                                                                                                                                                                                                           |
| Audio Communication                    | Bi-directional audio (2-way)                                                                                                                                                                                                                                                                                                                     |
| IP                                     | IPv4, IPv6                                                                                                                                                                                                                                                                                                                                       |
| Protocol                               | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, 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 (EAP-TLS, EAP-LEAP)                                                                                                                                                                                                 |
| Streaming Method                       | Unicast / Multicast                                                                                                                                                                                                                                                                                                                              |
| Max. User Access                       | 10 users at unicast mode<br>SD/SDHC/SDXC (128GB) - Motion images recorded in the SD/SDHC/SDXC memory card can be downloaded, Camera can detect automatically when the memory is connected, Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording                   |
| Edge Storage                           | ONVIF profile S, SUNAPI (HTTP API), SVNP, Samsung Techwin Open Platform                                                                                                                                                                                                                                                                          |
| Application Programming Interface      | English, French, German, Spanish, Italian, Chinese, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek                                                                                                                                                                 |
| Webpage Language                       | Supported OS : Windows XP / VISTA / 7 / 8 / 8.1 or higher, MAC OS X 10.7 ~ 10.10<br>Supported Browser : Microsoft Internet Explorer (Ver. 8 ~ 11), Mozilla Firefox (Ver. 9 ~ 35), Google Chrome (Ver. 15 ~ 40), Apple Safari (Ver. 8.0.2 (Mac OS X 10.10), 7.0.6 (Mac OS X 10.9), 6.0.2 (Mac OS X 10.8, 10.7 only), 5.1.7.* Mac OS X only        |
| Web Viewer                             | SmartViewer, SSM                                                                                                                                                                                                                                                                                                                                 |
| Central Management Software            | SmartViewer, SSM                                                                                                                                                                                                                                                                                                                                 |
| <b>ENVIRONMENTAL</b>                   |                                                                                                                                                                                                                                                                                                                                                  |
| Operating Temperature / Humidity       | -40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH<br>* Start up should be done at above -35°C (-31°F)                                                                                                                                                                                                                                            |
| Storage Temperature / Humidity         | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH                                                                                                                                                                                                                                                                                                |
| Ingress Protection / Vandal Resistance | IP66 / IK10                                                                                                                                                                                                                                                                                                                                      |
| <b>ELECTRICAL</b>                      |                                                                                                                                                                                                                                                                                                                                                  |
| Input Voltage / Current                | 24V AC ±10%, 12V DC ±10%, PoE (IEEE802.3af, Class3)                                                                                                                                                                                                                                                                                              |
| Power Consumption                      | Max. 12W/13.5W (24V AC, Heater off / on), Max. 10W/11.5W (12V DC, Heater off / on), Max. 11.5W/12.95W (PoE, Heater off / on)                                                                                                                                                                                                                     |
| <b>MECHANICAL</b>                      |                                                                                                                                                                                                                                                                                                                                                  |
| Color / Material                       | Dark gray / Aluminium                                                                                                                                                                                                                                                                                                                            |
| Dimensions (WxHxD)                     | 82.4 x 87.0 x 348.3mm (3.24" x 3.43" x 13.71") (With bracket)                                                                                                                                                                                                                                                                                    |
| Weight                                 | 1.42Kg (3.13 lb)                                                                                                                                                                                                                                                                                                                                 |

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