

## SNP-6320RH

2Megapixel Full HD 32x Network IR PTZ Dome Camera

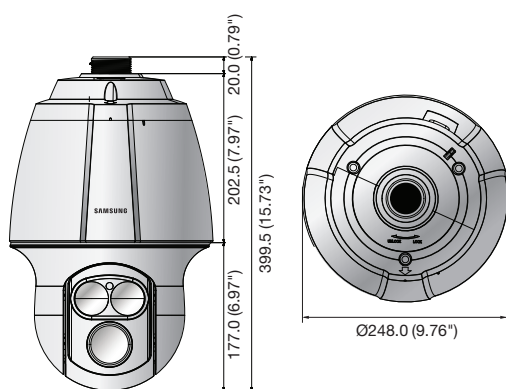


## Key Features

- Max. 2M (1920 x 1080) resolution
- 16 : 9 Full HD (1080p) resolution support
- 4.4 ~ 140.8mm (32x) IR corrected optical zoom, 16x digital zoom
- H.264, MJPEG dual codec, Multiple streaming
- Day & Night (ICR), WDR (120dB)
- Auto tracking, Intelligent video analytics
- SD/SDHC/SDXC memory slot, Bi-directional audio support
- IP66, IK10, IR LED (2ea)

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



SBP-300WM1 SBP-300WM SBP-300CM SBP-300LM SBP-300B SBP-300PM SBP-300KM

## SNP-6320RHN/P

| VIDEO                                  |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                         | 1/2.8" 2.38M CMOS                                                                                                                                                                                                                                                                                                                             |
| Total / Effective Pixels               | 1,952(H) x 1,116(V), 2.18M pixels / 1,944(H) x 1,104(V), 2.14M pixels                                                                                                                                                                                                                                                                         |
| Scanning System                        | Progressive                                                                                                                                                                                                                                                                                                                                   |
| Min. Illumination                      | Color : 0.3Lux (1/30sec, F1.6, 50IRE), 0.005Lux (2sec, F1.6, 50IRE)<br>0.1Lux (1/30sec, F1.6, 30IRE), 0.0005Lux (2sec, F1.6, 30IRE)<br>B/W : 0Lux (IR LED on)                                                                                                                                                                                 |
| S / N Ratio                            | 50dB                                                                                                                                                                                                                                                                                                                                          |
| Video Output                           | CVBS : 1.0Vpp / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation                                                                                                                                                                                                                                                                   |
| LENS                                   |                                                                                                                                                                                                                                                                                                                                               |
| Focal Length (Zoom Ratio)              | 4.4 ~ 140.8mm (Optical 32x)                                                                                                                                                                                                                                                                                                                   |
| Max. Aperture Ratio                    | F1.6(Wide) / F4.9(Tele)                                                                                                                                                                                                                                                                                                                       |
| Angular Field of View                  | H : 63.68°(Wide) ~ 2.24°(Tele) / V : 37.52°(Wide) ~ 1.28°(Tele)                                                                                                                                                                                                                                                                               |
| Min. Object Distance                   | 1.5m (4.92ft)                                                                                                                                                                                                                                                                                                                                 |
| Focus Control                          | AF / One-shot AF / Manual                                                                                                                                                                                                                                                                                                                     |
| Lens / Mount Type                      | DC auto iris (IR corrected) / Board-in type                                                                                                                                                                                                                                                                                                   |
| PAN / TILT / ROTATE                    |                                                                                                                                                                                                                                                                                                                                               |
| Pan / Tilt Range                       | 360° Endless / 190° (-5° ~ 185°)                                                                                                                                                                                                                                                                                                              |
| Pan / Tilt Speed                       | Preset : 250°/sec, Manual : 0.024°/sec ~ 120°/sec                                                                                                                                                                                                                                                                                             |
| Sequence / Preset Accuracy             | Preset (255ea), Swing, Group (6ea), Trace, Tour, Auto run, Schedule / ±0.2°                                                                                                                                                                                                                                                                   |
| Azimuth                                | Yes (E / W / S / N / NE / SE / NW / SW OSD)                                                                                                                                                                                                                                                                                                   |
| Auto Tracking                          | Off / On                                                                                                                                                                                                                                                                                                                                      |
| OPERATIONAL                            |                                                                                                                                                                                                                                                                                                                                               |
| IR LED                                 | 2ea                                                                                                                                                                                                                                                                                                                                           |
| Viewable Length                        | 150m (492.13ft)                                                                                                                                                                                                                                                                                                                               |
| Camera Title                           | Off / On (Displayed up to 15 characters)                                                                                                                                                                                                                                                                                                      |
| Day & Night                            | Auto (ICR) / Color / B/W                                                                                                                                                                                                                                                                                                                      |
| Backlight Compensation                 | Off / BLC / HLC / WDR                                                                                                                                                                                                                                                                                                                         |
| Wide Dynamic Range                     | 120dB                                                                                                                                                                                                                                                                                                                                         |
| Contrast Enhancement                   | SSDR (Samsung Super Dynamic Range) (Off / On)                                                                                                                                                                                                                                                                                                 |
| 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, Rectangular zones)                                                                                                                                                                                                                                                                                                             |
| Privacy Masking                        | Off / On (32ea, Rectangular zones)<br>- Color : Grey / Green / Red / Blue / Black / White, - Zoom ratio option for mask mode                                                                                                                                                                                                                  |
| Gain Control                           | Off / Low / Medium / High / Manual                                                                                                                                                                                                                                                                                                            |
| White Balance                          | ATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium                                                                                                                                                                                                                                                                                      |
| Electronic Shutter Speed               | Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)                                                                                                                                                                                                                                                                                            |
| Digital Zoom                           | 16x, area zoom function support digital zoom 2x                                                                                                                                                                                                                                                                                               |
| Flip / Mirror                          | Off / On                                                                                                                                                                                                                                                                                                                                      |
| Intelligent Video Analytics            | Tampering (Scene change), Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Face detection                                                                                                                                                                                                                                            |
| Alarm I/O                              | Input 4ea / Output 3ea (Relay type)                                                                                                                                                                                                                                                                                                           |
| Remote Control Interface               | RS-485/422                                                                                                                                                                                                                                                                                                                                    |
| RS-485 Protocol                        | Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon, Bosch, GE                                                                                                                                                                                                                                                                            |
| Alarm Triggers                         | Alarm input, Motion detection, Intelligent video analytics, Network disconnect                                                                                                                                                                                                                                                                |
| Alarm Events                           | File upload via FTP and E-mail, Notification via E-mail, Local storage(SD/SDHC) or NAS recording at Network disconnected, External output, PTZ preset                                                                                                                                                                                         |
| NETWORK                                |                                                                                                                                                                                                                                                                                                                                               |
| Ethernet                               | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                                                          |
| Video Compression Format               | H.264 (MPEG-4 Part 10/AVC) : Main / Baseline / High, MJPEG                                                                                                                                                                                                                                                                                    |
| Resolution                             | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180<br>H.264 : Max. 60fps at all resolutions<br>MJPEG : 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 : Max. 15fps<br>800 x 600, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180 : Max. 30fps |
| Max. Framerate                         |                                                                                                                                                                                                                                                                                                                                               |
| Smart Codec                            | Manual mode (Area-based : 5ea), Face detection mode                                                                                                                                                                                                                                                                                           |
| 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)                                                                                                                                                                                                                                                                                                        |
| Audio In                               | Selectable (Mic in / Line in), Supply voltage : 2.5V DC (4mA), Input impedance : approx. 2K Ohm                                                                                                                                                                                                                                               |
| Audio Out                              | Line out (3.5mm stereo mini jack), Max output level : 1 Vrms                                                                                                                                                                                                                                                                                  |
| Audio Compression Format               | G.711 u-law/G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz, 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                       | 15 users at unicast mode                                                                                                                                                                                                                                                                                                                      |
| Edge Storage                           | SD/SDHC/SDXC (Up to 128G)<br>Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded<br>NAS (Network Attached Storage), Local PC for instant recording                                                                                                                                                                       |
| Application Programming Interface      | ONVIF profile S, SUNAPI (HTTP API), SVP 1.2, Samsung Techwin Open Platform                                                                                                                                                                                                                                                                    |
| Webpage Language                       | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Finnish, Norwegian                                                                                                                                  |
| Web Viewer                             | Supported OS : Windows XP / VISTA / 7 / 8, MAC OS X 10.7<br>Supported Browser : Microsoft Internet Explorer (Ver.8 ~ 11), Mozilla Firefox (Ver.9 ~ 19), Google Chrome (Ver.15 ~ 25), Apple Safari (Ver.6.0.2(Mac OS X 10.8, 10.7 only), 5.1.7)<br>* Mac OS X only                                                                             |
| ENVIRONMENTAL                          |                                                                                                                                                                                                                                                                                                                                               |
| Operating Temperature / Humidity       | -50°C ~ +55°C (-58°F ~ +131°F) / Less than 90% RH                                                                                                                                                                                                                                                                                             |
| Storage Temperature / Humidity         | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH                                                                                                                                                                                                                                                                                             |
| Ingress Protection / Vandal Resistance | IP66 / IK10                                                                                                                                                                                                                                                                                                                                   |
| ELECTRICAL                             |                                                                                                                                                                                                                                                                                                                                               |
| Input Voltage / Current                | 24V AC only / 6A                                                                                                                                                                                                                                                                                                                              |
| Power Consumption                      | Max. 30W (Heater off) / Max. 35W/90W (Heater off/on, IR on)                                                                                                                                                                                                                                                                                   |
| MECHANICAL                             |                                                                                                                                                                                                                                                                                                                                               |
| Color / Material                       | Ivory / Aluminum                                                                                                                                                                                                                                                                                                                              |
| Dimensions (WxH)                       | Ø248.0 x 399.5mm (Ø9.76" x 15.73")                                                                                                                                                                                                                                                                                                            |
| Weight                                 | 7.1Kg (15.65 lb)                                                                                                                                                                                                                                                                                                                              |

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