

# SNP-6321H/6321

2M Full HD 32x Network PTZ Dome Camera



SNP-6321H

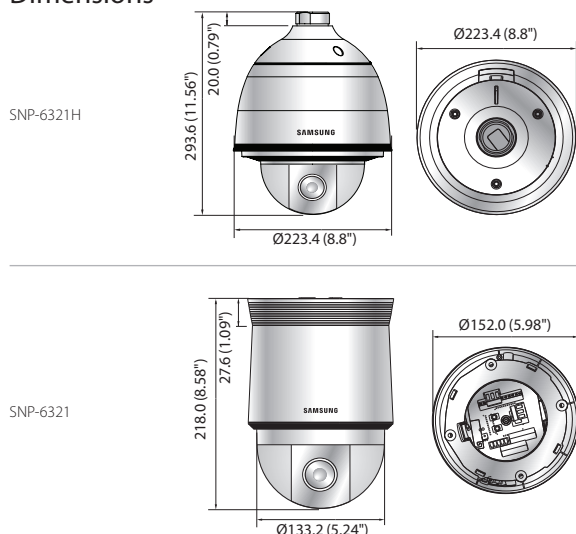
SNP-6321

## Key Features

- Max. 2megapixel (1920 x 1080) resolution
- 16 : 9 Full HD (1080p) resolution support
- 4.44 ~ 142.6mm (32x) optical zoom, 16x digital zoom
- H.264, MJPEG dual codec, Multiple streaming
- Day & Night (ICR), WDR (120dB), Intelligent video analytics
- PoE+, SD/SDHC/SDXC memory slot, Bi-directional audio support
- IP66 / IK10 (SNP-6321H), IK10 (SNP-6321 + SHP-3701H only)

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



\* 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).

|                                        | SNP-6321HN/HP                                                                                                                                                                                                                                                                                                                        | SNP-6321N/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, AGC high), 0.005Lux (2sec, F1.6, 50IRE, AGC high)<br>B/W : 0.03Lux (1/30sec, F1.6, 50IRE, AGC high), 0.0005Lux (2sec, F1.6, 50IRE, AGC high)<br>Color : 0.15Lux (1/30sec, F1.6, 30IRE), 0.0025Lux (2sec, F1.6, 30IRE)<br>B/W : 0.015Lux (1/30sec, F1.6, 30IRE), 0.00025Lux (2sec, F1.6, 30IRE) |             |
| 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)              | 4.44 ~ 142.6mm (Optical 32x)                                                                                                                                                                                                                                                                                                         |             |
| Max. Aperture Ratio                    | F1.6(Wide) / F4.4(Tele)                                                                                                                                                                                                                                                                                                              |             |
| Angular Field of View                  | H : 62.8°(Wide) ~ 2.23°(Tele) / V : 36.8°(Wide) ~ 1.26°(Tele)                                                                                                                                                                                                                                                                        |             |
| Min. Object Distance                   | Wide : 1.5m (4.92ft), Tele : 1.9m (6.23ft)   Wide : 1.5m (4.92ft), Tele : 2m (6.56ft)                                                                                                                                                                                                                                                |             |
| Focus Control                          | Auto / Manual / One push                                                                                                                                                                                                                                                                                                             |             |
| Lens / Mount Type                      | DC auto iris / Board-in type                                                                                                                                                                                                                                                                                                         |             |
| PAN / TILT / ROTATE                    |                                                                                                                                                                                                                                                                                                                                      |             |
| Pan / Tilt Range                       | 360° Endless / 210° (-15° ~ 195°)                                                                                                                                                                                                                                                                                                    |             |
| Pan / Tilt Speed                       | Preset : 700°/sec, Manual : 0.024°/sec ~ 120°/sec                                                                                                                                                                                                                                                                                    |             |
| Sequence                               | Preset (255ea), Swing, Group (6ea), Trace, Tour (1ea), Auto run, Schedule                                                                                                                                                                                                                                                            |             |
| Preset Accuracy                        | ±0.2°                                                                                                                                                                                                                                                                                                                                |             |
| Azimuth                                | Yes (E / W / S / N / NE / NW / SE / SW)                                                                                                                                                                                                                                                                                              |             |
| OPERATIONAL                            |                                                                                                                                                                                                                                                                                                                                      |             |
| Camera Title                           | Off / On (Displayed up to 45 characters)                                                                                                                                                                                                                                                                                             |             |
| Day & Night                            | Auto (ICR) / Color / B/W                                                                                                                                                                                                                                                                                                             |             |
| Backlight Compensation                 | Off / BLC                                                                                                                                                                                                                                                                                                                            |             |
| Wide Dynamic Range                     | 120dB                                                                                                                                                                                                                                                                                                                                |             |
| Contrast Enhancement                   | SSDR (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 rectangle zone)                                                                                                                                                                                                                                                                                                        |             |
| Privacy Masking                        | Off / On (32 zones of rectangle zone) with zoom threshold mosaic option                                                                                                                                                                                                                                                              |             |
| Gain Control                           | Off / Low / Middle / High                                                                                                                                                                                                                                                                                                            |             |
| White Balance                          | ATW / AWC / Manual / Indoor / Outdoor / Mercury                                                                                                                                                                                                                                                                                      |             |
| Electronic Shutter Speed               | Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)                                                                                                                                                                                                                                                                                   |             |
| Digital Zoom                           | 16x                                                                                                                                                                                                                                                                                                                                  |             |
| Flip / Mirror                          | Off / On                                                                                                                                                                                                                                                                                                                             |             |
| Intelligent Video Analytics            | Tampering, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Face detection                                                                                                                                                                                                                                                  |             |
| Alarm I/O                              | Input 4ea / Output 2ea (Relay)                                                                                                                                                                                                                                                                                                       |             |
| Remote Control Interface               | RS-485                                                                                                                                                                                                                                                                                                                               |             |
| RS-485 Protocol                        | Samsung-T/E, Pelco-P/D, Panasonic, Honeywell, AD, Vicon, Bosch, GE                                                                                                                                                                                                                                                                   |             |
| Alarm Triggers                         | Motion detection, Tampering, Audio detection, Face detection, Video analytics, Alarm input, Network disconnection                                                                                                                                                                                                                    |             |
| Alarm Events                           | File upload via FTP and E-mail, Notification via E-mail, TCP and HTTP, Local storage (SD/SDHC/SDXC) or NAS recording at network disconnected & event (Alarm triggers), External output                                                                                                                                               |             |
| NETWORK                                |                                                                                                                                                                                                                                                                                                                                      |             |
| Ethernet                               | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                                                 |             |
| Video Compression Format               | H.264 (MPEG-4 part 10 / AVC), MJPEG                                                                                                                                                                                                                                                                                                  |             |
| Resolution                             | 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 450, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180<br>H.264 : Max. 60fps at all resolutions                                                                                                                                                   |             |
| Max. Framerate                         | MJPEG : 1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 : Max. 15fps<br>800 x 600, 800 x 450, 720 x 576, 640 x 480, 640 x 360, 320 x 240, 320 x 180 : Max. 30fps                                                                                                                                                        |             |
| Smart Codec                            | Yes                                                                                                                                                                                                                                                                                                                                  |             |
| 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 mono jack), Max output level : 1 Vrms<br>G.711 u-law/G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps                                                                                                                                                                        |             |
| 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                                                                                                                                                                                                                                                                                                                 |             |
| 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                               | HTTPTS(SSL) login authentication, Digest login authentication<br>IP address filtering, User access log, 802.1x authentication                                                                                                                                                                                                        |             |
| Streaming Method                       | Unicast / Multicast                                                                                                                                                                                                                                                                                                                  |             |
| Max. User Access                       | 10 users at unicast mode                                                                                                                                                                                                                                                                                                             |             |
| Edge Storage                           | SD/SDHC/SDXC slot for supporting memory card<br>Motion images recorded in the SD/SDHC/SDXC memory card can be downloaded NAS (Network Attached Storage)                                                                                                                                                                              |             |
| Application Programming Interface      | ONVIF profile S, SUNAPI (HTTP API), SVNP 1.2, Wisenet 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                                                               |             |
| Central Management Software            | SmartViewer, SSM                                                                                                                                                                                                                                                                                                                     |             |
| ENVIRONMENTAL                          |                                                                                                                                                                                                                                                                                                                                      |             |
| Operating Temperature / Humidity       | 24V AC : -50°C ~ +55°C (-58°F ~ +131°F) / Less than ~ 90% RH<br>PoE+ : -30°C ~ +55°C (-22°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 ±10%, PoE+ (IEEE802.3at, Class4)                                                                                                                                                                                                                                                                                              |             |
| Power Consumption                      | 24V AC : Max. 65W (24V AC heater on & PoE heater on)<br>PoE+ : Max. 25W (24V AC heater off / PoE heater on)                                                                                                                                                                                                                          |             |
| MECHANICAL                             |                                                                                                                                                                                                                                                                                                                                      |             |
| Color / Material                       | Ivory / Plastic + Metal                                                                                                                                                                                                                                                                                                              |             |
| Dimensions (WxH)                       | Ø223.4 x 293.6mm (Ø8.8" x 11.56")                                                                                                                                                                                                                                                                                                    |             |
| Weight                                 | 3.2Kg (7.05 lb)                                                                                                                                                                                                                                                                                                                      |             |
|                                        | Ø152.0 x 218.0mm (Ø5.98" x 8.58")                                                                                                                                                                                                                                                                                                    |             |
|                                        | 1.8Kg (3.97 lb)                                                                                                                                                                                                                                                                                                                      |             |

\* The latest product information / sepecification can be found at <http://security.hanwhatechwin.com>