

# SNP-L5233H/L5233

1.3M HD 23x Network PTZ Dome Camera



SNP-L5233H



SNP-L5233

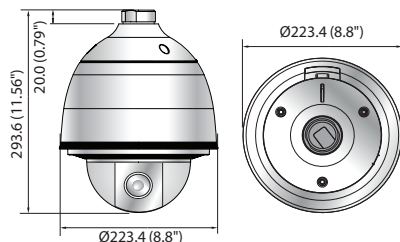
## Key Features

- Max. 1.3megapixel (1280 x 1024) resolution
- 16 : 9 HD (720p) resolution support
- 4.44 ~ 102.1mm (23x) optical zoom, 12x digital zoom
- 0.05Lux@F1.6 (Color), 0.005Lux@F1.6 (B/W)
- H.264, MJPEG dual codec, Multiple streaming
- Day & Night (ICR), WDR (100dB), Intelligent video analytics
- PoE+, SD/SDHC/SDXC memory slot, Bi-directional audio support
- IP66 / IK10 (SNP-L5233H), IK10 (SNP-L5233 + SHP-3701H only)

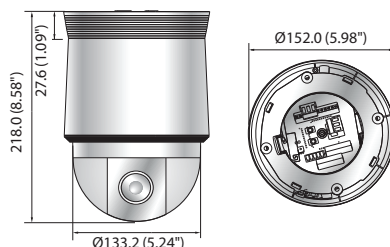
## Dimensions

Unit : mm (inch)

SNP-L5233H



SNP-L5233



## 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-L5233HN/HP                                                                                                                                                                                                                                                                                                                   | SNP-L5233N/P |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| VIDEO                                  |                                                                                                                                                                                                                                                                                                                                  |              |
| Imaging Device                         | 1/3" 1.3M CMOS                                                                                                                                                                                                                                                                                                                   |              |
| Total / Effective Pixels               | 1,312(H) x 1,069(V), 1.40M pixels / 1,305(H) x 1,049(V), 1.37M pixels                                                                                                                                                                                                                                                            |              |
| Scanning System                        | Progressive                                                                                                                                                                                                                                                                                                                      |              |
| Min. Illumination                      | Color: 0.1Lux (1/30sec, F1.6, 50IRE, AGC high), 0.005Lux (2sec, F1.6, 50IRE, AGC high)<br>B/W: 0.01Lux (1/30sec, F1.6, 50IRE, AGC high), 0.0005Lux (2sec, F1.6, 50IRE, AGC high)<br>Color: 0.05Lux (1/30sec, F1.6, 30IRE), 0.0025Lux (2sec, F1.6, 30IRE)<br>B/W: 0.005Lux (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 ~ 102.1mm (Optical 23x)                                                                                                                                                                                                                                                                                                     |              |
| Max. Aperture Ratio                    | F1.6(Wide) / F3.63(Tele)                                                                                                                                                                                                                                                                                                         |              |
| Angular Field of View                  | H: 56.8° (Wide) ~ 2.8° (Tele) / V: 46.3° (Wide) ~ 2.24° (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: 500°/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 / WDR                                                                                                                                                                                                                                                                                                                  |              |
| Wide Dynamic Range                     | 100dB                                                                                                                                                                                                                                                                                                                            |              |
| Contrast Enhancement                   | SSDR (Off / On)                                                                                                                                                                                                                                                                                                                  |              |
| Digital Noise Reduction                | SSNRIII (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                           | 12x                                                                                                                                                                                                                                                                                                                              |              |
| 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 Alarm triggers, External output                                                                                                                                                                          |              |
| NETWORK                                |                                                                                                                                                                                                                                                                                                                                  |              |
| Ethernet                               | RJ-45 (10/100BASE-T)                                                                                                                                                                                                                                                                                                             |              |
| Video Compression Format               | H.264 (MPEG-4 part 10 / AVC), MJPEG                                                                                                                                                                                                                                                                                              |              |
| Resolution                             | 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                                                                                                                                                                                                     |              |
| Max. Framerate                         | H.264 : Max. 30fps at all resolutions<br>MJPEG : 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                            | 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: 2.5VDC (4mA), Input impedance: approx. 2K Ohm                                                                                                                                                                                                                                     |              |
| Audio Out                              | Line out (3.5mm mono 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                                                                                                                                                                                                                                                                                                             |              |
| IP                                     | IPv4, IPv6                                                                                                                                                                                                                                                                                                                       |              |
| Protocol                               | TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour                                                                                                                                               |              |
| Security                               | HTTPS (SSL) login authentication, Digest login authentication, 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), SVP 1.2                                                                                                                                                                                                                                                                                      |              |
| Webpage Language                       | English, French, German, Spanish, Italian, Chinese, 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, 8.1, MAC OS X 10.7 / 10.8<br>Supported Browser : Microsoft Internet Explorer (Ver. 8 ~ 11), Mozilla Firefox (Ver. 9 ~ 19), Google Chrome (Ver. 15 ~ 32), 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 / specification can be found at [www.hanwha-security.com](http://www.hanwha-security.com)