

PNF-9010R/9010RV/9010RVM

4K Fisheye Camera



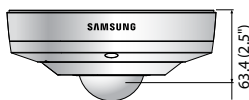
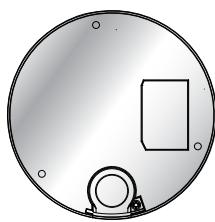
Key Features

- Max. 12 Megapixel (4000 x 3000) Resolution
- H.265, H.264, MJPEG Codec
- Variable View Mode (Fishyeye, Single Panorama, Double Panorama, Quad View Etc)
- On Board Dewarping, Digital PTZ (16x) / Bi-Directional Audio
- True WDR (120dB), WiseStream
- People Counting, Heatmap, Defocus Detection
- Micro SD / SDHC / SDXC (Max. 128GB), PoE

| | PNF-9010R | PNF-9010RV | PNF-9010RVM |
|---------------|-----------|------------|-------------|
| M12 Connector | | | ✓ |
| IK10, IP66 | | ✓ | ✓ |

Dimensions

Unit: mm (inch)



Accessories (Optional)



SBF-100B1



SBP-300HMS



SBP-300TM1

| | PNF-9010R | PNF-9010RV | PNF-9010RVM |
|------------------------------------|---|--|-----------------------------|
| VIDEO | | | |
| Imaging Device | 1/1.7" 12.4M CMOS | | |
| Total Pixels / Effective Pixels | 4,168 x 3,062 / 2,992 x 2,992 | | |
| Scanning System | Progressive | | |
| Min. Illumination | Color : 0.3Lux (F2.2, 30IRE), B/W : 0Lux (IR LED on) | | |
| S/N Ratio | 50dB | | |
| Video Output | CVBS : 1.0Vpp / 75Ω Composite, 714 x 480(N), 702 x 576(P), for Installation, DIP Connector Type | | |
| LENS | | | |
| Focal Length / Max. Aperture Ratio | 2.1mm Fixed / F2.2 | | |
| Angular Field of View | H : 180° / V : 180° / D : 180° | | |
| Min. Object Distance | 0.5m (1.64ft) | | |
| Focus Control | Simple Focus / Manual - Remote Control Via Network | | |
| Lens Type / Mount Type | Fixed Lens / Board Type | | |
| OPERATIONAL | | | |
| Viewable Length | 15m (49.21ft) | | |
| Camera Title | Off / On (Displayed up to 60 characters) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Grey / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution | | |
| Day & Night | Auto (ICR) / Color / B/W / External / Schedule | | |
| Backlight Compensation | Off / BLC / WDR | | |
| Wide Dynamic Range | 120dB | | |
| Contrast Enhancement | SSDR (Off / On) | | |
| Digital Noise Reduction | SSNR (2D+3D noise filter) (Off / On) | | |
| Defog | Off / Auto / Manual | | |
| Motion Detection | Off / On (8ea Polygonal Zones) | | |
| Privacy Masking | Off / On (8ea Polygonal) - Color : Gray / Green / Red / Blue / Black / White | | |
| Gain Control | Off / Low / Middle / High | | |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor | | |
| Electronic Shutter Speed | Minimum / Maximum / Anti Flicker | | |
| Digital Zoom | 16x, Digital PTZ (Preset, Group) | | |
| Flip / Mirror | Off / On | | |
| Intelligent Video Analytics | Tampering, Virtual Line, Enter/Exit, (Dis) Appear, Audio Detection, Defocus Detection | | |
| Alarm I/O | Input 1ea / Output 1ea | | |
| Alarm Triggers | Alarm input, Motion Detection, Video Analytics, Audio Detection, Network Disconnect, SD Card Error, NAS Error | | |
| Alarm Events | File upload via FTP and E-mail, Notification Via E-mail, Local Storage (SD / SDHC / SDXC) or NAS Recording at Event Triggers, External output | | |
| Viewing Composition | Camera Side : Fisheye, Single Panorama, Double Panorama, Fisheye + 4 PTZ Quad View, Fisheye + 8 PTZ | | |
| Pixel Counter | Support (Plug-in Viewer only) | | |
| NETWORK | | | |
| Ethernet | RJ-45 (10 / 100 / 1000 BASE-T) | | |
| Video Compression Format | H.265 / H.264 / MJPEG | | |
| Resolution | Double Panorama : 2560 x 1280, 1920 x 960, 1280 x 640, 704 x 352, 640 x 320 Single Panorama : 2560 x 640, 1920 x 480, 1280 x 320, 704 x 176, 640 x 160 Quad View : 2944 x 2208, 2560 x 1920, 2048 x 1536, 1600 x 1200, 1280 x 960, 1024 x 768, 800 x 600, 704 x 576, 640 x 480 | | |
| Max. Framerate | H.265 / H.264 : 20fps@4000 x 3000, 25fps@under 2992 x 2992, MJPEG : Max. 15fps | | |
| Smart Codec / WiseStream | Manual mode (Area-Based : 5ea) / Support | | |
| Video Quality Adjustment | H.265 / H.264 : Target Bitrate Level Control, MJPEG : Quality Level Control | | |
| Bitrate Control Method | H.265 / H.264 : CBR or VBR, MJPEG : VBR | | |
| Streaming Capability | Multiple streaming (Up to 3 profiles) | | |
| Audio In | Selectable (Mic in / Line in / Built-in Mic) | | |
| Audio Out | Supply Voltage : 2.5VDC (4mA), Input Impedance : Approx. 2K Ohm 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, AAC-LC : 48Kbps at 16KHz | | |
| Audio Communication | Bi-Directional | | |
| 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, SIP | | |
| Security | HTTPS(SSL) Login Authentication, Digest Login Authentication 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 128GB) - Motion Images Recorded in the SD/SDHC/SDXC Memory Card can be Downloaded - Camera can Detect Automatically when the memory is Connected - Memory Status Display (Normal / Error / Active / Formatting / Lock) NAS (Network Attached Storage), Local PC for Instant Recording (Plug-in Viewer Only) | | |
| Application Programming Interface | ONVIF Profile S/G, SUNAPI (HTTP API) v2.0, Wisenet Open Platform | | |
| Webpage Language | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Turkish, Polish, Czech, Dutch, Hungary, Greek | | |
| Web Viewer | Supported OS : Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11 Plug-in free Webviewer - Supported Browser : Google Chrome 47, MS Edge 20 Plug-in Webviewer - Supported Browser : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only | | |
| SmartViewer | SmartViewer | | |
| CENTRAL MANAGEMENT SOFTWARE | | | |
| ENVIRONMENTAL | | | |
| Operating Temperature / Humidity | -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH (PNF-9010R) | -40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH * Start up should be done at above -35°C (-31°F) (PNF-9010RV/9010RVM) | |
| Storage Temperature / Humidity | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH | | |
| Ingress Protection | N/A (PNF-9010R) IP66 (PNF-9010RV/9010RVM) | | |
| Vibration Resistance | EN55011:2009+A1:2010, EN50581:2012, EN50121-3-2:2015, EN61000-4-2:2009, EN61000-4-3:2006+A2:2010, EN61000-4-4:2012, EN61000-4-5:2014, EN61000-4-6:2009 | | |
| Vandal Resistance | IK10 | | |
| ELECTRICAL | | | |
| Input Voltage / Current | 12V DC ±10%, PoE (IEEE802.3af, Class3) | | |
| Power Consumption | 12V DC : Max. 11W, PoE : 12W (PNF-9010R) | 12V DC : Max. 12W, PoE : 12.95W (PNF-9010RV/9010RVM) | |
| MECHANICAL | | | |
| Color / Material | Ivory / Metal | | |
| Dimensions (WxH) | Ø146.0 x 63.4mm (Ø5.75" x 2.5") | | |
| Weight | 805g (1.77 lb) (PNF-9010R) | 810g (1.79 lb) (PNF-9010RV) | 815g (1.8 lb) (PNF-9010RVM) |