

# SNF-8010/8010VM

5Megapixel Fisheye Camera



SNF-8010

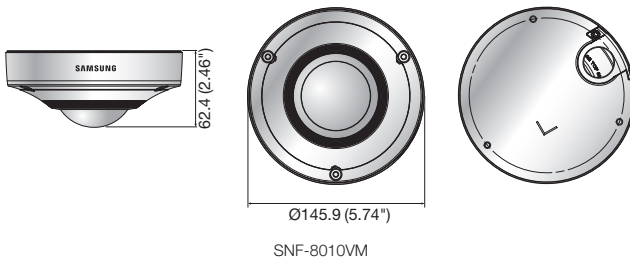
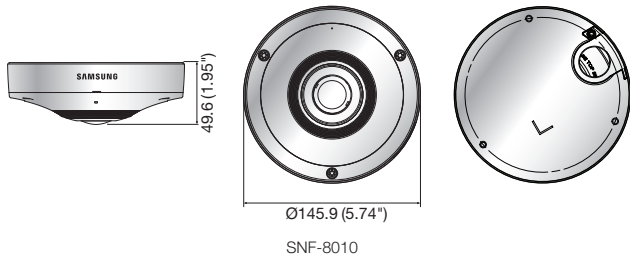
SNF-8010VM

## Key Features

- Max. 5M (2560 x 2048) resolution
- Various viewing composition, 6 dewarping view mode
- On board dewarping, Digital PTZ / Bi-directional audio
- WDR (60dB), MD, AD
- M12 connector (SNF-8010VM)
- IP66, IK10, EN50155, EN61373 certifications (SNF-8010VM)
- micro SD/SDHC/SDXC memory slot, PoE

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



SBP-300TM1



SBP-300HM5

## SNF-8010/8010VM

|  |   |  |
|--|---|--|
| <b>VIDEO</b>                           |   |  |
| Imaging Device                         | 1/1.8" 6M CMOS (IMX178)   |  |
| Total Pixels / Effective Pixels        | 6megapixel / 5.2M (2,560 x 2,048)   |  |
| Scanning System                        | Progressive   |  |
| Min. Illumination                      | Color : 0.5Lux (F2.5, 50IRE), 0.2Lux (F2.5, 30IRE)<br>B/W : 0.05Lux (F2.5, 50IRE), 0.02Lux (F2.5, 30IRE)  |  |
| <b>LENS</b>                            |   |  |
| Focal length / Max. Aperture Ratio     | 1.14mm fixed / F2.5   |  |
| Angular Field of View                  | H : 187° / V : 187° / D : 187°  |  |
| Min. Object Distance / Focus Control   | 0.3m (0.98ft) ~ Infinity / Manual   |  |
| Lens Type / Mount Type                 | Fixed lens / Board type (M12)   |  |
| <b>OPERATIONAL</b>                     |   |  |
| Camera Title                           | Off / On (Displayed up to 15 characters)  |  |
| Day & Night / Backlight Compensation   | True D&N / BLC  |  |
| Wide Dynamic Range                     | 60dB (SSDR)   |  |
| Contrast Enhancement                   | SSDR (Samsung Super Dynamic Range) (Off / On)   |  |
| Digital Noise Reduction                | SSNR (2D+3D noise filter) (Off / On)  |  |
| Motion Detection                       | Off / On (4ea rectangle zones)  |  |
| Privacy Masking                        | Off / On (32 zones with rectangle)  |  |
| Gain Control                           | Off / Low / Middle / High   |  |
| White Balance                          | ATW / AWC / Manual / Indoor / Outdoor (Include mercury)   |  |
| Electronic Shutter Speed               | 2 ~ 1/12,000sec   |  |
| Digital Zoom                           | 16x, Digital PTZ (Preset, Group)  |  |
| Flip / Mirror                          | Off / On  |  |
| Intelligent Video Analytics            | Tampering, Audio detection  |  |
| Alarm I/O                              | Input 1ea / Output 1ea  |  |
| Alarm Triggers                         | Motion detection, Tampering, Audio detection, 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) recording at network disconnected & event (Alarm triggers), External output   |  |
| Viewing Composition                    | Camera : 360 source view, Single panorama, Double panorama, Quad view, Single rectangle<br>CMS : 360 source view, Single panorama, Double panorama, Quad view, Single rectangle, 360 source view + 3 rectangle, Single panorama + 2 rectangle                         |  |
| <b>NETWORK</b>                         |   |  |
| Ethernet                               | RJ-45 (10/100BASE-T) : Female type, SNF-8010VM : M12 connector type   |  |
| Video Compression Format               | H.264 (MPEG-4 part 10/AVC), MJPEG   |  |
| Resolution                             | Original View   | 2560 x 2048, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 480, 640 x 480, 320 x 240   |
|  | Dewarped View   | 1. Single rectangle : 800 x 600, 640 x 480, 320 x 240<br>2. Quad view : 1600 x 1200, 1280 x 960, 1024 x 768, 800 x 600, 640 x 480, 320 x 240<br>3. Double panorama : 2048 x 1536, 1600 x 1200, 1280 x 960, 1024 x 768, 800 x 600, 640 x 480, 320 x 240<br>4. Single panorama : 2048 x 768, 1600 x 600, 1280 x 480, 1024 x 384, 800 x 300, 640 x 240, 320 x 120   |
| Max. Framerate                         | MJPEG   | Source view - 2560 x 2048 : 10fps<br>1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 : 15fps<br>800 x 600, 720 x 480, 640 x 480, 320 x 240 : 20fps<br>Single panorama view - 2048 x 768, 1600 x 1200, 1280 x 480, 1024 x 384 : 15fps<br>800 x 300, 640 x 240, 320 x 120 : 20fps<br>Double panorama view - 2048 x 1536, 1600 x 1200, 1280 x 960, 1024 x 768 : 15fps<br>800 x 600, 640 x 480, 320 x 240 : 20fps<br>Quad view - 1600 x 1200, 1280 x 960, 1024 x 768 : 15fps<br>800 x 600, 640 x 480, 320 x 240 : 20fps<br>Single rectangle view - 800 x 600, 640 x 480, 320 x 240 : 20fps |
|  | H.264   | Max. 20fps at all resolution   |
| Video Quality Adjustment               | H.264 : Target bitrate level control, MJPEG : Quality level control   |  |
| Bitrate Control Method                 | H.264 : CBR or VBR, MJPEG : VBR   |  |
| Streaming Capability                   | Multiple streaming (Up to 5 profiles)   |  |
| Audio In                               | Selectable (Mic in / Line in : SNF-8010/8010VM), Built-in Mic : SNF-8010<br>Supply voltage : 2.5V DC (4mA), Input impedance : approx 2K ohm   |  |
| Audio Out                              | Line out (3.5mm stereo mini jack), Max output level : 1Vrms   |  |
| Audio Compression Format               | G.711 u-law/G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz, G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps  |  |
| Audio Communication / IP               | Bi-directional / IPv4, IPv6   |  |
| Protocol                               | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, IGMP, 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  |  |
| Streaming Method                       | Unicast / Multicast   |  |
| Max. User Access                       | 10 users at unicast mode  |  |
| Edge Storage                           | micro SD/SDHC/SDXC (64GB) - Motion images recorded in the SDXC/SDHC/SD memory card can be downloaded, NAS (Network Attached Storage)  |  |
| Application Programming Interface      | ONVIF profile S, SUNAPI (HTTP API) v2.0, SVNP 1.2   |  |
| 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  |  |
| <b>ENVIRONMENTAL</b>                   |   |  |
| Operating Temperature / Humidity       | -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH : SNF-8010<br>-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH<br>* Start up should be done at above -25°C (-13°F) : SNF-8010VM  |  |
| Storage Temperature / Humidity         | -30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH   |  |
| Ingress Protection / Vandal Resistance | IP66 / IK10 (SNF-8010VM)  |  |
| Standard Certification                 | UL, CE, FCC, RoHS, Gost, KC (EN-61373, EN-50155 : SNF-8010VM)   |  |
| <b>ELECTRICAL</b>                      |   |  |
| Input Voltage / Current                | 12V DC ±10%, PoE (IEEE802.3af, Class3) : SNF-8010<br>12V DC ±10%, PoE (IEEE802.3af, Class3) mode A only : SNF-8010VM  |  |
| Power Consumption                      | Max. 8.7W (12V DC), Max. 10.3W (PoE)  |  |
| <b>MECHANICAL</b>                      |   |  |
| Color / Material                       | Ivory / Aluminum : SNF-8010, Ivory / Aluminum (Clear dome cover) : SNF-8010VM   |  |
| Dimensions (WxH) / Weight              | Ø145.9 x 49.6mm (Ø5.74" x 1.95") / 780g (1.72 lb) : SNF-8010<br>Ø145.9 x 62.4mm (Ø5.74" x 2.46") / 800g (1.76 lb) : SNF-8010VM  |  |

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