

# SNF-8010/8010VM

5Megapixel Fisheye Camera



SNF-8010

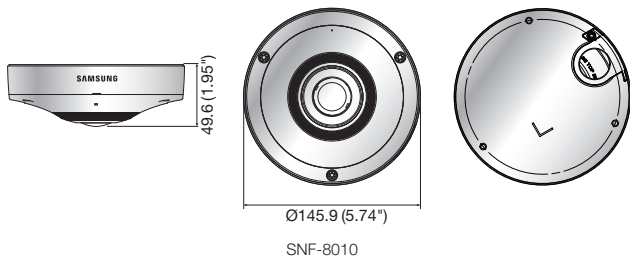
SNF-8010VM

## Key Features

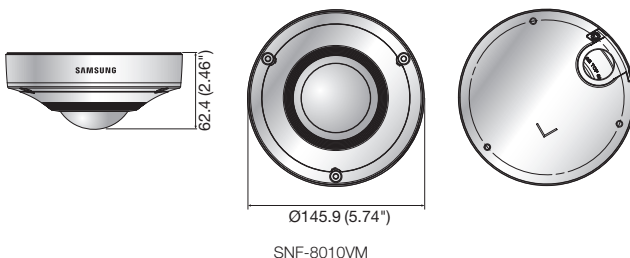
- Max. 5M (2560 x 2048) resolution
- Various viewing composition, 6 dewarping view mode
- On board dewarping, Digital PTZ / Bi-directional audio
- WDR (60dB), MD, AD
- M12 connector (SNF-8010VM)
- IP66, IK10, EN50155, EN61373 certifications (SNF-8010VM)
- micro SD/SDHC/SDXC memory slot, PoE

## Dimensions

Unit : mm (inch)



SNF-8010



SNF-8010VM

## 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) 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 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
	Dewarped View
Max. Framerate	MJPEG
	H.264
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
Audio Out	Supply voltage : 2.5V DC (4mA), Input impedance : approx 2K ohm 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, 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	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 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) * 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 -30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH * 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)
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	145.9 x 49.6mm (5.74" x 1.95") / 780g (1.72 lb) : SNF-8010 145.9 x 62.4mm (5.74" 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)

## SNF-7010/7010V/7010VM

3Megapixel Fisheye Camera



SNF-7010



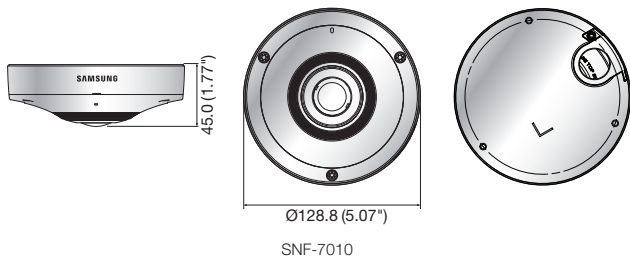
SNF-7010V/7010VM

## Key Features

- Max. 3M (2048 x 1536) resolution
- Various viewing composition
- H.264, MJPEG dual codec, Multiple streaming
- Digital PTZ, Bi-directional audio support
- WDR (120dB), SD/SDHC/SDXC memory slot
- IP66, IK10 and EN50155 certifications (SNF-7010V/7010VM)
- M12 connector (SNF-7010VM)

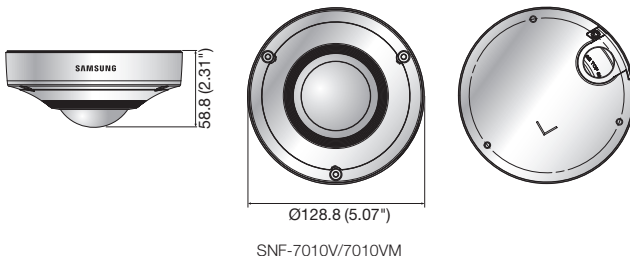
## Dimensions

Unit : mm (inch)



Ø128.8 (5.07")

SNF-7010



Ø128.8 (5.07")

SNF-7010V/7010VM

## Accessories (Optional)



SBP-300TM



SBP-301HM4

## SNF-7010/7010V/7010VM

<b>VIDEO</b>	
Imaging Device	1/2.8" 3M CMOS
Total Pixels	3megapixel
Scanning System	Progressive
Min. Illumination	1.3Lux
<b>LENS</b>	
Focal length	1.05mm fixed
Max. Aperture Ratio	F2.8
Angular Field of View	H : 170° / V : 180° / D : 178°
Min. Object Distance	0.3m (0.98ft)
Lens Type	Fixed focal
Mount Type	Board-in type
Lens Angle Adjustment	Rotation : 0° ~ 355°
<b>OPERATIONAL</b>	
Camera Title	Off / On (Displayed up to 45 characters)
Day & Night	Auto (Electrical) / Color / B/W / Schedule
Backlight Compensation	Off / BLC
Wide Dynamic Range	120dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNR III (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4ea, 4 point polygonal)
Privacy Masking	Off / On (32-4 point polygonal)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker / 50Hz / 60Hz (2 ~ 1/12,000sec)
Intelligent Video Analytics	Tampering
Alarm Triggers	Motion detection, Tampering, Audio detection, Network disconnection
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100BASE-T) : SNF-7010/7010V, M12 (10/100BASE-T) : SNF-7010VM
Video Compression Format	H.264, MJPEG
Max. Framerate (Raw)	3M 20fps
Dewarping	Client
Smart Viewer	
Viewing Composition	Camera : 360° fisheye / Client : Single panorama, Double panorama, Quad, User selectable region, Single rectangle, 1 original, 3 rectangle, 1 panorama + 2 rectangle
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 6 profiles)
Audio I/O	Built-in microphone : SNF-7010, External mic in/out : SNF-7010/7010V/7010VM
Audio Compression Format	G.711 u-law, G.726 (16Kbps, 24Kbps, 32Kbps, 40Kbps)
Audio Communication	Bi-directional
IP	IPv4, IPv6
Protocol	TTCP/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, UPnP, Bonjour
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Encryption	TLS 1.0, SSL VPN, Video data encryption
Max. User Access	15 users at unicast mode
Edge Storage	SD/SDHC/SDXC memory slot
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 / 8.1, MAC OS X 10.7 Supported Browser : Microsoft Internet Explorer (Ver. 11 ~ 8) Mozilla Firefox (Ver. 19 ~ 9) * Windows only Google Chrome (Ver. 25 ~ 15) * Windows only Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only
Central Management Software	Smart Viewer
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	PoE : -10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH : SNF-7010 PoE : -30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH *Start up should be done at above -25°C (-13°F) : SNF-7010V/7010VM
Ingress Protection	IP66 : SNF-7010V/7010VM
Vandal Resistance	IK10 : SNF-7010V/7010VM
Railway Certificate	EN50155 : SNF-7010V/7010VM
<b>ELECTRICAL</b>	
Input Voltage / Current	12V DC, PoE (IEEE802.3af class3) : SNF-7010/7010V 12V DC, PoE (Class A type only) : SNF-7010VM
Power Consumption	Max. 7.4W
<b>MECHANICAL</b>	
Color / Material	Ivory / Aluminum (PC) : SNF-7010, Ivory / Aluminum : SNF-7010V/7010VM
Dimensions (WxH)	Ø128.8 x 45.0mm (Ø5.07" x 1.77") : SNF-7010 Ø128.8 x 58.8mm (Ø5.07" x 2.31") : SNF-7010V/7010VM
Weight	480g (1.06 lb) : SNF-7010, 550g (1.21 lb) : SNF-7010V/7010VM

\* 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).

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