

# SNB-9000

4K UHD & 12Megapixel Network Camera



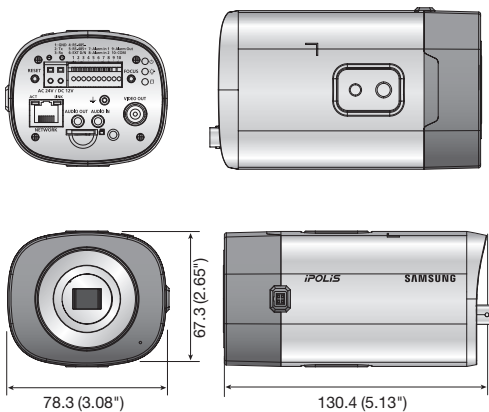
\* Lens not included

## Key Features

- Max. 12M (4000 x 3000) / 8M (3840 x 2160) resolution
- 20fps@4000 x 3000 / 30fps@3840 x 2160
- Simple focus, Day & Night (ICR)
- Intelligent video analytics
- micro SD/SDHC/SDXC memory slot
- Bi-directional audio support

## Dimensions

Unit : mm (inch)



## Accessories (Optional)



SNB-9000N/P	
<b>VIDEO</b>	
Imaging Device	1/2.3" 12M CMOS
Total Pixels	12megapixel (4,168 x 3,062)
Effective Pixels	4072(H) x 3046(V)
Scanning System	Progressive
Min. Illumination	Color : 0.28Lux (1/30sec, F1.2), 0.01Lux (1sec, F1.2) B/W : 0.03Lux (1/30sec, F1.2), 0.001Lux (1sec, F1.2)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vpp / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation BNC type
<b>LENS</b>	
Focus Control	Simple focus / Manual Remote control via network, Button control (Manual, Simple focus, Day & Night)
Lens Type	Manual / DC auto iris
Mount Type	C / CS
<b>OPERATIONAL</b>	
Camera Title	Off / On (Displayed up to 20 characters)
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC / HLC
Contrast Enhancement (DWDR)	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Motion Detection	Off / On (4ea 4 points polygonal zones)
Privacy Masking	Off / On (32 zones of rectangular)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor / Mercury
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1 ~ 1/12,000sec)
D-PTZ	8x, Digital PTZ (Preset, Group)
Flip / Mirror	Off / On
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, (Dis)Appear, Audio detection, Face detection with metadata (to NVR / SSM recording server)
Alarm I/O	Input 2ea / Output 1ea
Remote Control Interface	RS-485
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Sunjijn, Panasonic, Honeywell, AD, Vicon, GE, Bosch
Alarm Triggers	Motion detection, Tampering, Audio detection, Face detecton, 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) recording at Network disconnected & Event (Alarm triggers) or NAS recording at event (Alarm triggers), External output
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100/1000BASE-T)
Video Compression Format	H.264 (MPEG-4 part 10/AVC), MJPEG
Resolution	4000 x 3000, 4096 x 2160, 3840 x 2160, 2592 x 1944, 2048 x 1536, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.264 : 3840 x 2160 ~ 320 x 240 : 30fps, 4096 x 2160 : 25fps, 4000 x 3000 : 20fps MJPEG : 800 x 600 ~ 320 x 240 : 20fps, 1024 x 768 ~ 1920 x 1080 : 15fps, 2048 x 1536 ~ 2592 x 1944 : 10fps, 3840 x 2160 ~ 4000 x 3000 : 5fps
Smart Codec	Yes (Area based method)
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 3 profiles per each resolution mode)
Audio In	Selectable (Mic in / Line in), Max output level : 1Vrms
Audio Out	Line out (3.5mm mono mini jack)
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, 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	Maximum 15 users access (Maximum 5 users each profile)
Edge Storage	micro SD/SDHC/SDXC (128GB) Motion images recorded in the SD/SDHC/SDXC memory card can be downloaded.
Application Programming Interface	ONVIF profile S, SUNAPI (HTTP API) v2.0, SNNP 2.0
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Norwegian, Finnish
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
Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 95% RH
<b>ELECTRICAL</b>	
Input Voltage / Current	24V AC ±10%, 12V DC ±10%, PoE (IEEE802.3af, Class3)
Power Consumption	Max. 12.5W (24V AC, 50 ~ 60Hz), Max. 12W (12V DC), Max. 12W (PoE, Class3)
<b>MECHANICAL</b>	
Color / Material	Black, Ivory / Aluminium
Dimensions (WxHxD)	78.3 x 67.3 x 130.4mm (3.08" x 2.65" x 5.13")
Weight	493g (1.09 lb)

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