

SNB-9000

4K UHD & 12M Network Camera



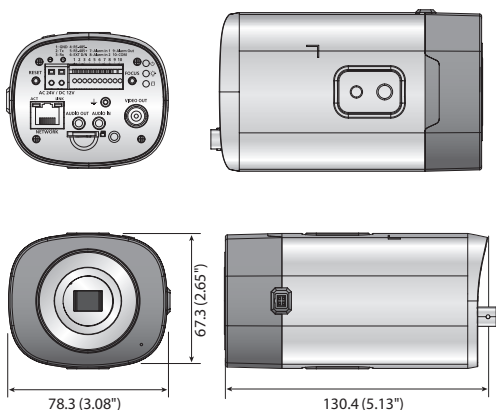
* Lens not included

Key Features

- Max. 12megapixel (4000 x 3000) / 8megapixel (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	
VIDEO	
Imaging Device	1/2.3" 12M CMOS
Total Pixels	12megapixel (4,168 x 3,062)
Effective Pixels	4,072(H) x 3,046(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
LENS	
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
OPERATIONAL	
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 (Off / On)
Digital Noise Reduction	SSNR III (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, Sungjin, Panasonic, Honeywell, AD, Vicon, GE, Bosch
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) recording at Network disconnected & Event (Alarm triggers) or NAS recording at event (Alarm triggers), External output
NETWORK	
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/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	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) 2.0, S/NP 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
ENVIRONMENTAL	
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
ELECTRICAL	
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)
MECHANICAL	
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.hanwha-security.com