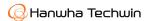# XNB-9002

4K Network Box Camera

Benefits

- Perfect cameras for effective forensic search applications with clear and vivid images thanks to state-of-the-art image processing and up to 4K resolution.

- Well contrasted and more detail-rich images, even in harsh lighting conditions, with 'extreme WDR'.

- Easier identification of objects and suspects in live video and during forensic review, thanks to advanced filters for motion and still areas to minimise motion blur and improve edge and colour definition.

- Reduced bandwidth and storage needs by up to 99% compared to current H.264 technology without sacrificing image quality, with WiseStream II technology combined with H.265 compression.

- Optimise security and safety economically, use advanced video and sound analytics completely license-free.

- Make sure your video is backed-up onboard the camera. Increase video recording resilience using the dual microSD slots to allow edge-based video recording in the event of network disruptions.

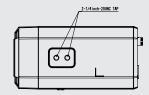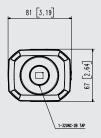| XNB-9002	
VIDEO	
Imaging Device	1/2.8"CMOS
Min. Illumination	Colour: 0.05Lux(F1.2, 1/30sec) B/W: 0.005Lux
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation
LENS	
Angular Field of View	N/A
Focus Control	Simple focus
Lens Type	DC auto iris, P iris, Manual, I-CS
Mount Type	C mount, CS mount
OPERATIONAL	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR
Wide Dynamic Range	extremeWDR
Contrast Enhancement	SSDR
Digital Noise Reduction	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, polygonal zones - Colour : Gray, Green, Red, Blue, Black, White - Mosaic
Gain Control	Support
White Balance	ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90˚/270˚)
Analytics	Defocus detection, Directional detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, Shock detection, Face/upper body detection
Business Intelligence	People counting, Queue management, Heatmap
Serial Interface	RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
Alarm I/O	2 configurable I/O ports
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output PTZ Preset Handover Audio playback
Audio In	Selectable(mic in/line in/Built-in mic) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Audio Out	Line out, Max.output level: 1Vrms

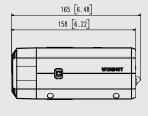Hanwha Techwin

WISENET X series

Key Features

- 4K resolution
- 0.05Lux@F1.2 (Colour), 0.005Lux(B/W)
- Max. 30fps@4K (H.265/H.264)
- DIS with built-in Gyro sensor
- Video Analytics (Defocus, Directional detection, Audio detection, Shock detection, Face/Upper body detection)
- Digital auto tracking, Sound classification
- Motion detection, Handover
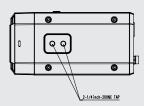- Dual SD slots (Max. 512GB)
- WiseStream II support

Dimensions

Unit:mm(inch)

XNB-9002	
NETWORK	
Ethernet	RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Resolution	3840x2160, 3328x1872,3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps/12fps(60Hz/50Hz)
Smart Codec	Manual(5ea area), WiseStreamII
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)
Audio Compression	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
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast)
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA)
Edge Storage	Micro SD/SDHC/SDXC 2slot 512GB(256Gx2)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Web Viewer	Supported OS: Windows 8.1 or later, Mac OS X 10.13 or later Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	4GB RAM, 512MB Flash
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +55°C(+14°F ~ +131°F) / Less than 95% RH (non condensing)
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
ELECTRICAL	
Input Voltage	PoE(IEEE802.3af), 12VDC, 24VAC
Power Consumption	PoE: typ 8.2W, Max 12.95W 12VDC: typ 7.5W, Max 11.5W 24VAC: typ 8.9W, Max 13.5W
MECHANICAL	
Colour / Material	Black / Aluminum
Product dimensions / weight	W81xD165xH67mm (W3.19xD6.48xH2.64"), Weight:0.88kg