WISENET X series

use-IP

XRN-820S

8CH POE+ NVR

Benefits

- A cost-effective way to take advantage of the licence-free Deep Learning AI video analytics built into Wisenet AI cameras.

- Install wizard accessible through web interface to quickly install without monitor and keyboard directly attached.

- Wisenet AI cameras have Deep Learning analytics to detect and classify objects including people, vehicles, faces and number plates as well as object attributes such as gender, colour of clothing, glasses, bags and vehicle type.

- Single or multiple event trigger rules can include a wide range of event criteria, such as audio, fog, motion, tampering and motion detection, as well as sound classification and Intelligent Video Analytics (IVA).

- AI search filters allow the rapid discovery of footage using check box criteria to filter by object type and attributes.

- WiseStream II complementary compression technology, combined with H.265 compression, improves bandwidth efficiency by up to 75% compared to current H.264 technology.

- New look front grill optimises air flow to keep the hard disk drives cool which increases disk life and efficiency.

- Dynamic event supports future camera features without the need for a firmware upgrade.

- QR code scan on your smartphone for remote monitoring on the move.

- 16 ChannelsCIF to 8K resolution support or Max 16 Ch (CIF – 32mp).

- ONVIF profile S conformant.

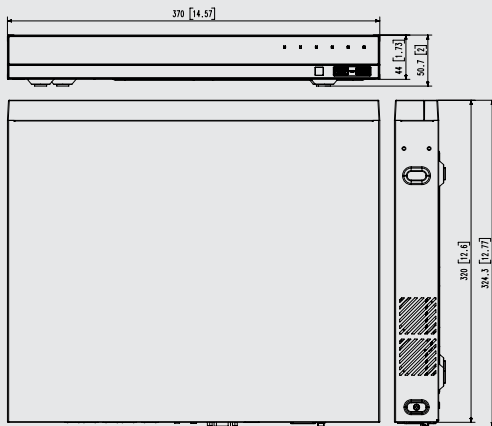| XRN-820S		
DISPLAY		
Network camera		
	Inputs	Max. 8CH
	Resolution	32MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding		
	Local Display	FHD : HDMI & VGA Dual monitor UHD : HDMI Single monitor
	Multi Screen Display	[Local Monitor] 1/ 2V/ 2H/ 3V/ 4/ 6/ 8/ 9/ Sequence [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9
	Resolution	[Local Monitior] FHD Clone mode : 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps), 1080p(240fps), D1(480fps) UHD Single mode : 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps), 1080p(240fps), D1(270fps) FHD Expand mode: 32M(12fps, H.265 Only), 12M(25fps, H.265 Only), 8.3M(30fps), 1080p(90fps), D1(200fps) Expand mode : Max 15fps when displaying 8CH
PERFORMANCE		
Operating System		
	Embedded	Linux
Record		
	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 100Mbps
	Resolution	32MP ~ CIF
	Mode	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	Event Trigger	Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play		
	Playback Bandwidth	Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 32CH(Local 8CH, Remote 8CH per user)
	Fisheye Dewarping	CMS
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search
	Resolution	CIF ~ 32MP (Up to H.264 8.3MP, H.265 32MP)
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage		
	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max. 12TB)
Backup		
	File backup	BU/Exe(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 8CH) Play, Date-Time/Title display
NETWORK		
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)
DDNS		Hanwha DDNS
Transmission Bandwidth		Max. 100Mbps
Audio		
	Input/Output	8 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users		Search(3), Live Unicast(10), Multicast(20)
Security		IP address filtering, User access Log, 802.1x, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware

Hanwha Techwin

Key Features

- Up to 8CH (CIF to 32MPix supported)
- Max. 140Mbps network camera recording
- HDMI out
- User friendly UI / UX
- AI search support when working with Wisenet AI camera
- Dynamic Event support - New event function of cameras is available without software update
- H.265, H.264, MJPEG codec supported
- Plug & play by 8 PoE ports
- Bookmark management (Up to 100 set)
- SATA 2ea (Up to 12TB)

Dimensions

Unit:mm(inch)

* The latest product information / specification can be found at hanwha-security.com
* Design and specifications are subject to change without notice.
* Wisenet is the proprietary brand of Hanwha Techwin.

XRN-820S		
Web viewer		
	Supported OS	Windows 10, macOS 10.13
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari, Firefox
Viewer Software		WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS
FUNCTIONS		
Camera Setup		
	Register	Auto, Manual
	Item	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon) Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ		
	Control	Via GUI, Webviewer, SPC-2000
	Preset	300 Presets
Smart phone		
	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live 8CH(Multi-Profile Support), Playback 4CH
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy		
	Failover	N+1
	ARB	Support
Easy configuration		P2P(QR code)
INTERFACE		
Front	Indicator	HDD, Alarm, Power, Record, Backup, Network
Storage		OK
HDMI		1EA 3840x2160 30Hz
VGA		1EA 1920x1080 60Hz
Audio		Out 1EA
Ethernet		PoE RJ-45 8EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps)
Alarm		In 4EA, Out 2EA
USB		3EA(Front 2 x USB 2.0, Rear 1 x USB 3.0)
Power inlet		AC 1EA
SYSTEM		
Log	Log List	Max. 100,000 (System Log, Event Log each)
System Control		Mouse, Web, Controller (SPC-2000)
Language		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese
ENVIRONMENTAL		
Operating Temperature		0°C to +40°C(32°F to 104°F)
Operating Humidity		20% ~ 85% RH
ELECTRICAL		
Power Input		100 ~ 240 VAC ±10%; 50/60 Hz
Power Consumption		Max 160W
PoE Budget		100W
MECHANICAL		
Colour / Material		Black
Dimension (WxHxD)		370 x 50.7 x 324.3 mm
Weight		2.7Kg
INTELLIGENT ANALYSIS		
AI Search	Object Attribute	Compatible for Wisenet AI Camera