WISENET X series



XRN-820S

8CH POE+ NVR

Benefits

- A cost-effective way to take advantage of the licence-free Deep Learning Al video analytics built into Wisenet Al 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).
- Al 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
DISPLA	Υ	
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
PERFOR	RMANCE	
Operatin		
	Embedded	Linux
Record		
	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	·
	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		I
	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max. 12TB)
Backup	E	211/5 (511) 125 (41/4)
	File backup	BU/Exe(GUI), JPG/AVI(Network)
NETWO	Function	Multi channel(Up to 8CH) Play, Date-Time/Title display
Protocol	KK	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
	sion Bandwidth	Max. 100Mbps
Audio		,
	Input/Output	8 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio	2-Way
	Communication	
	ote 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



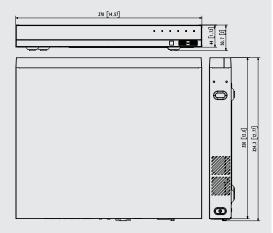
WISENET X series

Key Features

- Up to 8CH (CIF to 32MPix supported)
- Max. 140Mbps network camera recording
- HDMI out
- User friendly UI / UX
- Al search support when working with Wisenet Al 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.

	XRN-820S
Web viewer	
Supported OS	Windows 10, macOS 10.13
Supported browser	
Viewer Software	WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile
viewei soitwaie	Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS
FUNCTIONS	The state of the s
Camera Setup	
Register	Auto, Manual
Item	IP address, Add profile edit, Bitrate, Compression, GOP,
Tem	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	1 21 (Qircode)
Front Indicator	HDD, Alarm, Power, Record, Backup, Network
	OK
Storage 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
	000 +- 14000(2200 +- 40405)
Operating Temperature	0°C to +40°C(32°F to 104°F)
Operating Humidity	20% ~ 85% RH
ELECTRICAL	100 0401/45 (400) 75/5011
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	
Al Object Attribute Search	Compatible for Wisenet AI Camera



^{*} Wisenet is the proprietary brand of Hanwha Techwin.