

XRN-820S

8CH NVR



PE | 4 | C F | III

Key Features

- Up to 8 channels, up to 32MP camera resolution supported
- Maximum 100Mbps network camera recording
- UHD HDMI / VGA monitor output
- 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 with 8 PoE+ ports
- Bookmark management (Up to 100 set)
- SATA 2ea (Up to 12TB)

Display		
Network camera	Inputs	Maximum 8 Channels
	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 Monitor] FHD Clone mode : 32MP(15fps, H.265 Only), 12MP(30fps, H.265 Only), 8.3MP(50fps), 1080p(240fps), D1(480fps) UHD Single mode : 32MP(15fps, H.265 Only), 12MP(30fps, H.265 Only), 8.3MP(50fps), 1080p(240fps), D1(270fps) FHD Expand mode: 32MP(12fps, H.265 Only), 12MP(25fps, H.265 Only), 8.3MP(30fps), 1080p(90fps), D1(200fps) Expand mode : Maximum 15fps when displaying 8 channels
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Maximum 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	Maximum 32Mbps
	User	Maximum 4 Users (Local 1, Remote 3)
	Simultaneous playback	Maximum 32 Channels (Local 8 channels, Remote 8 Channels 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 8 Channels) 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		Maximum 100Mbps
Audio	Input/Output	8 Channels via network camera
	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
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 3rd 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 8 Channels (Multi-Profile Support), Playback 4 Channels
	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	Maximum 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
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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	Maximum 160W
PoE Budget	100W, IEEE802.3af / IEEE802.3at , Maximum 30W per port

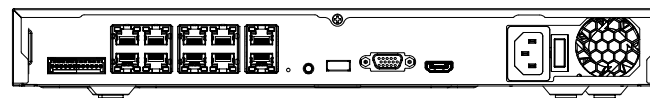
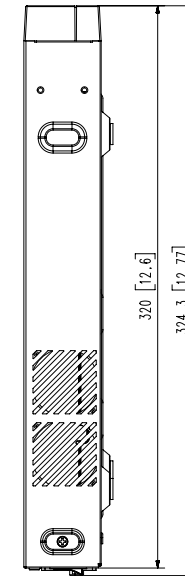
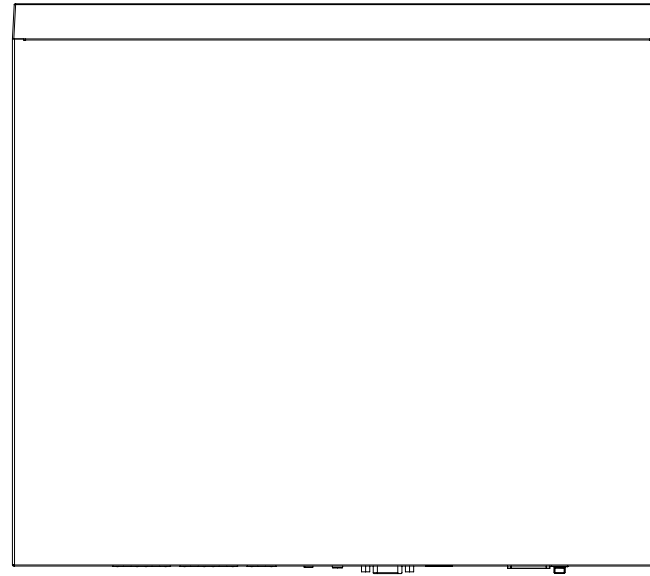
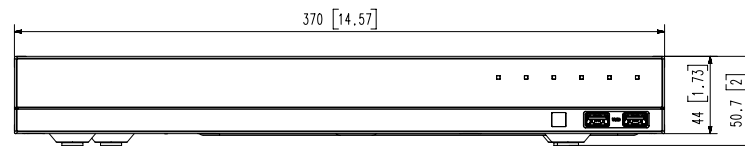
Mechanical

Color / 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
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- The latest product information / specification can be found at hanwhasecurity.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



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1	XRN-820S	'20.11.06
No.	MODEL NAME	DATE
Unit:mm[inch]		SCALE:1/2
Hanwha Techwin		