



XRN-820S

8CH NVR











Key Features

- Up to 8CH 32MP supported
- Max. 120Mbps 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)



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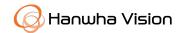
8CH NVR



Specifications

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] - Dynamic layout, Virtual channel view - Clone mode: Up to 16 Division - Expand mode: Up to 9 Division [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)
Performance		
Operating System	Embedded	Linux
operating system	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 120Mbps
Record	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, User Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
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)
	RAID	RAID-1
Backup	File backup	BU/Exe/AVI(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 8CH) Play, Date-Time/Title display

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com. Hanwha Vision is formerly known as Hanwha Techwin.



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. 120Mbps		
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		
Web viewer	Supported OS	Windows 10, macOS 10.13	
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari	
Viewer Software	WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS		
Functions			
	Register	Auto, Manual	
Camera Setup	ltem	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon) Camera video setup (Simple focus, Brightness/Contras: Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage	
	Control	Via GUI, Webviewer, SPC-2000	
PTZ	Preset	300 Presets	
	Support Model	iOS, Android	
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)	
Smart phone	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 (3.5mm Audio Jack)		
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, Keyboard, Web, Controller (SPC-2000)		
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Romanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Tha 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	$100 \sim 240 \text{ VAC} \pm 10\%; 50/60 \text{ Hz}$		
Power Consumption	Max 160W		
PoE Budget	100W		
Mechanical			
Color / Material	Black / Metal		
Dimension (WxHxD)	370 x 50.7 x 324.3 mm (14.57 x 2 x 12.77 inch)		
Weight	2.7Kg (5.95lb)		
Intelligent Analysis			
Al Search	Object Attribute	Compatible for Hanwha Al Camera	