



# **QRN-1630S**

16CH NVR



### **Key Features**

- Up to 16CH, 8MP camera supported
- H.265, H.264, MJPEG codec
- 128Mbps network camera recording
- Plug & play by 16 PoE(LAN, 10/100), 1PoE(WAN, 1Gbps)
- SATA 2ea(up to 20TB)
- ARB supported
- P2P service (QR code connect) supported



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### **Specifications**

Display			
	Inputs	Max. 16CH	
Network camera	Resolution	8MP ~ CIF	
	Protocols	SUNAPI, ONVIF	
Decoding	Local Display	HDMI1: 3840x2160(30Hz), HDMI2: 1920x1080(60Hz)	
	Multi Screen Display	Clone Mode: Dynamic layout Expand Mode: HDMI1 Dynamic layout, HDMI2 up to 16 Div. [Web] 1/2H/2V/3V/4/6/8/9	
	Resolution	[Local Monitor] 8M(60fps), 1080p(240fps), 720P(480fps), D1(960fps)	
Desferons			
Performance	Emboddod	Linux	
Operating System	Embedded	Linux	
	Compression	H.265, H.264, MJPEG	
	Recording Bandwidth	Max. 128Mbps	
	Resolution	8MP ~ CIF	
Record	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. 40CH(Local 16CH, Remote 8CH per user)	
	Fisheye Dewarping	CMS	
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search	
	Resolution	CIF ~ 8MP	
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down	
Storage	Supported HDD	Up to 10TB	
	HDD Slot	SATA 2ea(Max. 20TB)	
Backup	File backup	BU/Exe/AVI(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	Hanwha DDNS	
Transmission Bandwidth	Max. 128Mbps	Max. 128Mbps	

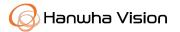
Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com Hanwha Vision is formerly known as Hanwha Techwin.



Audio	Input/Output	16 CH(network)	
	Compression	G.711, G.726, AAC(16/48KHz)	
	Audio Communication	2-Way	
Max Remote Users	Search(3), Live Unicast(10), Multic	ast(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 11	
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari	
Viewer Software		WAVE, SSM, Webviewer, Smart Viewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS	
Functions			
Camera Setup	Register	Auto, Manual	
	ltem	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	
FIZ	Preset	300 Presets	
	Support Model	iOS, Android	
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)	
Smart phone	Control	Live: Multi-Profile Support, Multi Channel Playback	
	Max. Remote Users	Search(3), Live Unicast(10)	
Redundancy	Failover	N+1	
reduridancy	ARB	Support	
Easy configuration	P2P(QR code)		
Interface			
Front	Indicator	Power, Record, Network	
Storage	ок		
HDMI	2EA		
Audio	Out 1EA (RCA output)		
Ethernet	PoE RJ-45 16EA (LAN, 10/100), RJ-45 1ea (LAN/WAN 1Gbps)		
Alarm	In 4EA, Out 2EA		
USB	2EA(Front 2 x USB 2.0)		
Power inlet	AC 1EA		
System			
Log	Log List	Max. 100,000 (System Log, Event Log each)	
System Control	Mouse, Keyboard, Web		
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, 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		
Floctrical			

#### Electrical

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Power Input	$100 \sim 240 \text{ VAC} \pm 10\%; 50/60 \text{ Hz}$	
Power Consumption	Max. 200W(682 BTU with 2HDD, PoE ON)	
PoE Budget	130W	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	370.0 x 50.7 x 320 mm (14.6 x 2.0 x 12.6 inch)	
Weight	2.87Kg (6.33 lb)	



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CAD Unit:mm [inch]

