



# QRN-430S

4CH NVR



## Key Features

- Up to 4CH 8MP resolution
- H.265, H.264, MJPEG codec
- 40Mbps network camera recording
- Plug & play by 4 PoE port
- Max. 1 HDD (Up to 6TB)
- HDMI output
- P2P service (QR code)

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## Specifications

### Display

<b>Network camera</b>	Inputs	Max. 4CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI, ONVIF
<b>Decoding</b>	Local Display	HDMI
	Multi Screen Display	[Local Monitor] 1/ 2V/ 2H/ 3V/ 4/ Sequence [Web] 1/ 2V/ 2H/ 3V/ 4
	Resolution	[Local Monitor] 8M(30fps), 1080p(120fps), 720P(120fps), D1(120fps)

### Performance

<b>Operating System</b>	Embedded	Linux
<b>Record</b>	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 40Mbps
	Resolution	8MP ~ 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
<b>Search &amp; Play</b>	Playback Bandwidth	Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 16CH(Local 4CH, Remote 4CH 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
<b>Storage</b>	Supported HDD	Up to 6TB
	HDD Slot	SATA 1ea(Max 6TB)
<b>Backup</b>	File backup	BU/Exe(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 4CH) Play, Date-Time/Title display

## Network

<b>Protocol</b>		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)
<b>DDNS</b>		Hanwha DDNS
<b>Audio</b>	Input/Output	4 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
<b>Max Remote Users</b>		Search(3), Live Unicast(10), Multicast(20)
<b>Web viewer</b>	Supported OS	Windows 10, macOS 10.13
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari
<b>Viewer Software</b>		WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS

## Function

<b>Camera Setup</b>	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, SSSDR, DIS),, Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
<b>PTZ</b>	Control	Via GUI, Webviewer
	Preset	300 Presets
<b>Smart phone</b>	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live 4CH(Multi-Profile Support), Playback 4CH
	Max. Remote Users	Search(3), Live Unicast(10)
<b>Redundancy</b>	Failover	N+1
	ARB	Support
<b>Easy configuration</b>		P2P(QR code)

## Interface

<b>Front</b>	Indicator	Power, Record, Network
<b>Storage</b>		OK
<b>Reset</b>		Support
<b>HDMI</b>		1EA 3840x2160 30Hz
<b>Ethernet</b>		PoE RJ-45(LAN, 10/100) 4ea, RJ-45 1ea (WAN, 10/100)
<b>USB</b>		2EA(Front 1 x USB 2.0, Rear 1 x USB 2.0)
<b>Power inlet</b>		DC Adaptor

## System

<b>Log</b>	Log List	Max. 100,000 (System Log, Event Log each)
<b>System Control</b>		Mouse, Web

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## System

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)
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Operating Humidity	20% ~ 85% RH
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## Electrical

Power Input	100 ~ 240 VAC $\pm$ 10%, 50/60Hz
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Power Consumption	Max. 52W(1HDD, PoE On)
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PoE Budget	35W
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## Mechanical

Color / Material	Black / Metal
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Dimension	300.0 x 47.1 x 208.4 mm (11.81 x 1.85 x 8.20 inch)
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Weight	1.03Kg(2.27lb)
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## CAD

Unit: mm [inch]

