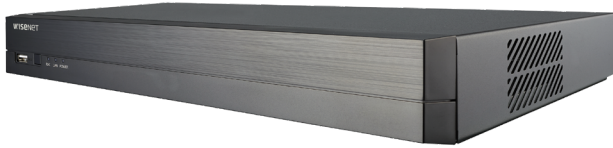# QRN-810S

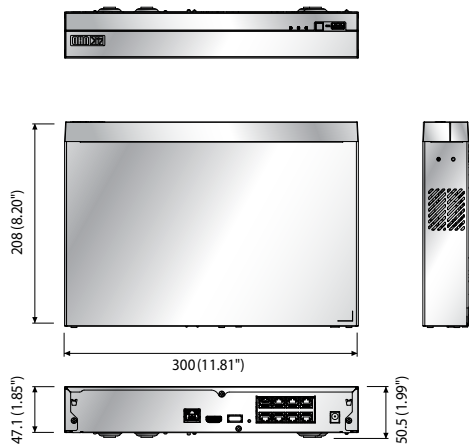8Ch Network Video Recorder with built-in PoE Switch

Key Features

- Up to 8ch 8megapixel supported
- H.265, H.264, MJPEG codec supported
- 80Mbps network camera recording
- Plug & play by 8 PoE ports
- Max. 1HDD supported
- HDMI local monitor
- P2P service (QR code connect) support

Dimensions

Unit : mm (inch)

208 (8.20")
300 (11.81")
47.1 (1.85")
50.5 (1.99")

			QRN-810S
DISPLAY			
Network Camera	Inputs		Max. 8ch
	Resolution		CIF ~ 8MP
	Protocols		Wisenet, ONVIF (Profile-S)
Live	Local Display		1x HDMI
	Multi-Channel Display		[Local Monitor] 1 / 2H / 2V / 3V / 4 / 6 / 8 / Auto Sequence [Web] 1 / 4 / 8 / Auto Sequence
	Performance		[Local Monitor] 8MP (60fps) 5MP (90fps), 3MP (120fps), 2MP (240fps), 720p (240fps), D1 (240fps)
PERFORMANCE			
Operating System	Embedded		Linux
Record	Compression		H.265, H.264, MJPEG
	Recording Bandwidth		Max. 80Mbps
	Resolution		CIF ~ 8MP
	Type		Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Event Trigger		Video Loss, Camera event (Sensor, MD, Video analytics, Defocus)
	Event Action		e-Mail, PTZ Preset, Buzzer, Monitor Out
Search & Play	Playback Bandwidth		32Mbps (8ch simultaneously)
	Performance		Max. 3 Users (Local 1,Remote 3)
	Mode		Date & Time (Calendar), Event Log list, Text Search (POS), ARB Search, Smart Search (Virtual Line w / direction, Enter / Exit)
	Simultaneous playback		Max. 8ch (Local, Network)
	Resolution		CIF ~ 8MP
	Fish-Eye Dewarping		N/A (processed on Web / CMS)
	Playback Control		Fast / Slow Forward / Backward, Move one step Up / Down
Storage	Default Built-In		0 ~ 6TB
	Internal		1 (Max.6TB)
Backup	File backup		BU / Exe (USB), JPG / AVI (Web, CMS)
	Function		Multi channel (Upto 8ch) Play, Date-Time / Title display
Sensor	I/O		N/A
Audio	Input		8 ch (network)
	Compression		G.711, G.726, AAC (16 / 48KHz)
	Audio Communication		2-Way
NETWORK			
Protocol			TCP / IP, UDP / IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI (Server, Client)
DDNS			Hanwha Security DDNS
Transmission Bandwidth			80Mbps
Max Remote Users			Search (3), Live Unicast (10), Multicast (20)
IP Version			IPv4 / IPv6
Security			User access Log, IP Filtering, 802.1x, Encryption
Language	GUI		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai
	Web		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai
OS			Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11
Web Browser			Plug-in free web viewer : Google Chrome 47, MS Edge 20 Plug-in Webviewer : MS Explorer 11, Apple Safari 9 (Mac OS X only)
Viewer Software	Type		SSM, Webviewer, Smart Viewer, Wisenet Mobile
	CMS Support		Support SDK / CGI (SUNAPI)
FUNCTIONS			
Camera Setup	Register		PnP, Manual
	Setup Items		IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup Camera video setup (Simple focus, Brightness / Contrast, Flip / Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping setup, Hallway View Setup, Camera Webpage
Camera Control	PoE		Monitor PoE Power consumption, On / Off Control for each PoE camera, Remote Reset for each PoE camera
Easy Configuration			Setup Wizard (Date / Time, Network, Auto Camera Configuration) P2P (QR code)
ARB			Yes
PTZ	Control		Via GUI, Webviewer, 255 preset
Smart phone	Support Model		iPhone, Android
	Protocol Support		RTP, RTSP, HTTP, CGI (SUNAPI)
	Control		Live (8ch) : Multi-Profile Support, Playback (4ch), Event push
	Max. Remote Users		Search (3), Live Unicast (10), Multicast (20)
System Control			Mouse, Web, IR Remote control
INDICATOR / INTERFACE			
Front	Indicator		LED (Status indicator) : 3ea Power Status 1, LAN 1, Record 1
Connectors	VGA		N/A
	HDMI		1 EA (3840 x 2160, 1920x1080, 1280x720)
	Audio		N/A
	Ethernet		8EA (PoE, 100Mbps) 1EA (WAN, 1Gbps) - WAN : Uplink to CMS
	Alarm		N/A
	USB		Front 1EA (USB2.0), Rear 1 (USB3.0)
	Ext. Storage		N/A
	Serial		N/A
	Reset		Switch (1EA)
	Power Cord		Included
SYSTEM			
Log	Log List		Max. 20000 (System Log, Event Log each)
ENVIRONMENTAL			
Operating Temperature / Humidity			+0℃ to +40℃ (+32℉ to +104℉)
Humidity			20% ~ 85% RH
ELECTRICAL			
Power Input			54V DC / 1.67A
Power Consumption			Max. 76.2W (1HDD, PoE on), Max. 8.1W (1HDD, PoE off)
PoE Budget			Max. 50W
MECHANICAL			
Color / Material			Black / Metal
Dimension (WxHxD)			W300.0 x H47.1 x D208.4 mm (1U) (11.81" x 1.85" x 8.20")
Weight			1.01Kg (2.22 lb) (without HDD)

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