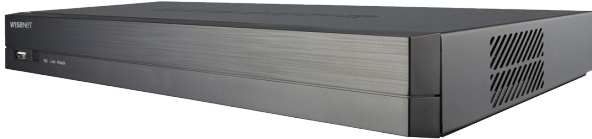


# QRN-810

8CH Network Video Recorder

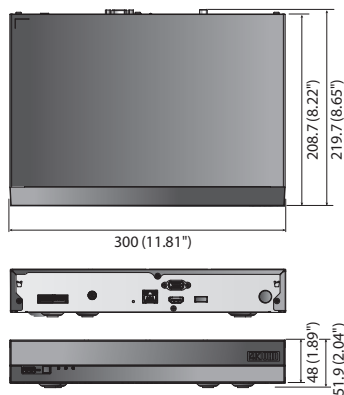


## Key Features

- Up to 8CH, 8megapixel camera supported
- H.265, H.264, MJPEG codec support
- 100Mbps network camera recording
- Max. 1HDD, e-SATA supported
- HDMI / VGA local monitor
- ARB supported
- P2P service(QR code connect) support

## Dimensions

Unit : mm (inch)



		QRN-810
<b>DISPLAY</b>		
Video	Inputs	Up to 8CH
	Resolution	CIF ~ 8MP
	Protocols	Samsung, ONVIF
Live	Local Display	HDMI / VGA
	Multi Screen Display	[Local monitor] 1 / 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)
<b>PERFORMANCE</b>		
Operating System	Embedded	Linux
Recording	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	100Mbps
	Resolution	CIF ~ 8MP
	Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Event Trigger	Alarm input (4), Video loss, Camera event (Sensor, MD, Video analytics, Defocus)
Search & Playback	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
	Playback Bandwidth	32Mbps (8CH simultaneously)
	Performance	Max. 3 users (Local 1, Remote 3)
	Mode	Date & Time (Calendar) / Event log list / Text search (POS, ANPR), ARB search, Smart search (Virtual Line w/ direction, Enter / Exit)
	Simultaneous Playback	Up to 8CH (Local, Network)
Storage	Resolution	CIF ~ 8MP
	Playback Control	Fast/Slow Forward/Backward, Move one step up/down
	Default Built-In	0TB ~ 6TB (Dependent on region)
Backup	Internal	1 (Max.6TB)
	Max. Capacity	6TB
Sensor	File Backup	BU/EXE, (USB), JPG/AVI (Web, CMS)
	Function	Multi channel (Up to 8CH) play, Date-time/title display
Audio	Input / Output	4 / 3 (NO 2ea, NO/NC 1ea)
	Input	8CH (Network)
Audio	Compression	G.711, G.726, AAC (16/48KHz)
	Audio Communication	2-way
<b>NETWORK</b>		
Protocol Support		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		128Mbps
Max. Remote Users		Search 3 / Live unicast 10 / Live multicast 20
IP		IPv4 / IPv6
Security		IP address filtering, User access log, 802.1x authentication, Encryption
Language	GUI / 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		Supported OS : Windows 7, 8, 10, Mac OS X 10.8, 10.9, 10.10, 10.11
Web Browser		Non-plugin Webviewer Supported Browser : Google Chrome 47, MS Edge 20 Plug-in Webviewer Supported MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X only
Viewer Software	Type	SSM, Webviewer, SmartViewer, Wisenet mobile
Viewer Software	CMS Support	SDK / CGI (SUNAPI)
<b>FUNCTIONS</b>		
Camera Setup	Register	Auto mode, Manual mode
	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, SSSNR, Shutter, SSSDR, DIS), Fisheye dewarping (Web), Hallway view setup, Camera webpage
		Setup wizard (Date/Time, Network, Auto camera configuration), P2P (QR code)
Easy Configuration		Setup wizard (Date/Time, Network, Auto camera configuration), P2P (QR code)
Redundancy	ARB	Yes
PTZ	Control / Preset	Via GUI, Webviewer, 255 presets
Smart Phone	OS	Android, iOS
	Protocol Support	RTP, RTSP, HTTP, CGI (SUNAPI)
	Control	Live (8CH) : Multi-profile support, Playback (1CH), Event push
Max. Remote Users		Search 3 / Live unicast 10 / Live multicast 20
System Control		Mouse, IR Remocon, Web
<b>INDICATOR / INTERFACE</b>		
Front	Indicator	Power status LED 1ea, LAN LED 1ea, Record status LED 1ea
	VGA	1ea
	HDMI	1ea - Support up to 4K (3840 x 2160)
	Audio	Out 1ea (RCA, Line)
Connections	Ethernet	1ea (WAN, 1Gbps) - WAN : Uplink to CMS
	Alarm	In 4ea (Terminal block) / Out 3ea (Terminal block)
	USB	2ea (Front 1, Rear 1)
	Reset	Switch (1ea)
	Power Cord	Included
<b>SYSTEM</b>		
Log	Log List	Max. 20,000 (System log, Event log each)
<b>GENERAL</b>		
Electrical	Input Voltage / Current	12V DC / 4A
	Power Consumption	MAX. 9W(31 BTU), 2TB HDD x 1ea)
	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
Environmental	Operating Humidity	20% ~ 85% RH
	Color / Material	Black / Metal
Mechanical	Dimensions (WxHxD)	300.0 x 48.0 x 208.7mm (17.32" x 1.89" x 8.22") (1U)
	Weight	1.66Kg (3.66 lb) (2TB HDD)

\* The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)  
 \* Design and specifications are subject to change without notice.