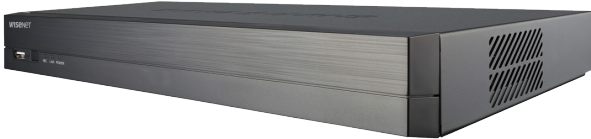


QRN-810

8CH Network Video Recorder

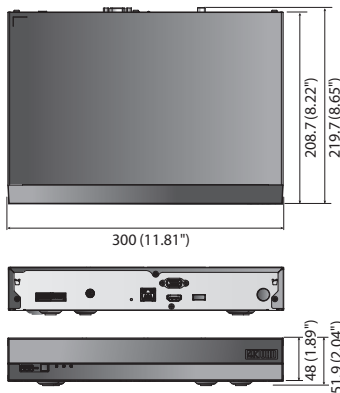


Key Features

- 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		
DISPLAY		
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)
PERFORMANCE		
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
	File Backup	BU/EXE (USB), JPG/AVI (Web, CMS)
Sensor	Function	Multi channel (Up to 8CH) play, Date-time/title display
	Input / Output	4 / 3 (NO 2ea, NO/NC 1ea)
Audio	Input	8CH (Network)
	Compression	G.711, G.726, AAC (16/48KHz)
	Audio Communication	2-way
NETWORK		
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
FUNCTIONS	CMS Support	SDK / CGI (SUNAPI)
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, SSNR, Shutter, SDR, DIS), Fisheye dewarping (Web), Hallway view setup, Camera webpage
	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
System Control	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Mouse, IR Remocon, Web	
INDICATOR / INTERFACE		
Front	Indicator	Power status LED 1ea, LAN LED 1ea, Record status LED 1ea
	VGA	1ea
	HDMI	1ea - Support up to 4K (3840 x 2160)
Connections	Audio	Out 1ea (RCA, Line)
	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
SYSTEM		
Log	Log List	Max. 20,000 (System log, Event log each)
GENERAL		
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
* Design and specifications are subject to change without notice.