

QRN-1610S

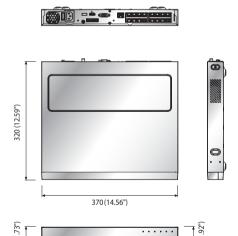
16Ch Network Video Recorder with built-in PoE Switch



Key Features

- Up to 16ch 8megapixel supported
- H.265, H.264, MJPEG codec supported
- 128Mbps network camera recording
- Plug & play by 16 PoE ports
- Max. 2HDDs supported
- HDMI / VGA local monitor
- P2P service (QR code connect) support

Dimensions



Unit:mm (inch)

		QRN-1610S
DISPLAY		
Network	Inputs Resolution	Max. 16ch CIF ~ 8MP
Camera	Protocols	Wisenet, ONVIF (Profile-S)
Live	Local Display	1x HDMI/1x VGA [[acal Mapited 1/2H/2V//4/6/9/0/13/16/Auto Sequence
	Multi-Channel Display	[Local Monitor] 1/2H/2V/3V/4/6/8/9/13/16/Auto Sequence [Web] 1/4/9/16/Auto Sequence
	Performance	[Local Monitor] 8MP (60fps) 5MP (90fps), 3MP (120fps), 2MP (240fps), 720p (480fps), D1 (480fps)
PERFORMANC		The Confession (Teology Entry Confession Con
Operating System Embedded Compression		Linux H.265, H.264, MJPEG
Record	Recording Bandwidth	Max. 128Mbps
	Resolution Type	CIF ~ 8MP Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Event Trigger	Alarm Input (4), Video Loss, Camera event (Sensor, MD, Video analytics, Defocus)
Search & Play	Event Action Playback Bandwidth	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out 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), Max 16ch (Network)
	Resolution Fish-Eye Dewarping	CIF ~ 8MP N/A (processed on Web / CMS)
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Default Built-In Internal	0~6TB 2 (Max.12TB)
Backup	File backup	BU / Exe (USB), JPG / AVI (Web, CMS)
Sensor	Function I/O	Multi channel (Upto 16ch) Play, Date-Time / Title display 4/2 (NO 1EA, NO / NC 1EA)
	Input	16 ch (network)
Audio	Compression Audio Communication	G.711, G.726, AAC (16 / 48 KHz) 2-Way
NETWORK		,
Protocol		TCP, VIP, 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 Transmission Bandwidth		Hanwha Security DDNS 128Mbps
Max Remote Users		Search (3), Live Unicast (10), Multicast (20)
IP Version Security		IPv4 / IPv6 User access Log, IP Filtering, 802.1x, Encryption
Security	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
Language	Web	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek,
OS		Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai 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
Viewer Type		Plug-in Webviewer : MS Explorer 11, Apple Safari 9 (Mac OS X only) SSM, Webviewer, Smart Viewer, Wisenet Mobile
Software	CMS Support	Support SDK / CGI (SUNAPI)
FUNCTIONS	Register	PnP, Manual
C C-+	riegister	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD
Camera Setup	Setup Items	setup, Camera video setup (Simple focus, Brightness / Contrást, Flip / Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping setup, Hallway View Setup, Camera Webpage
Camera Contro		Monitor PoE Power consumption, On / Off Control for each PoE camera, Remote Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration)
Easy Configuration		P2P (QR code)
PTZ	Control	Yes Via GUI, Webviewer, 255 preset
Smart phone System Control	Support Model Protocol Support	iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI)
	Control	Live (16ch): Multi-Profile Support, Playback (4ch), Event push
	Max. Remote Users	Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control
INDICATOR/IN		
Front	Indicator	LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1
Connectors	VGA	1EA (1920x1080, 1280x720)
	HDMI Audio	1EA (3840 x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line)
	Ethernet	16EA (POE, 100Mbps) 1EA (WAN, 1Gbps) - WAN: Uplinkto CMS
	Alarm	1EA (WAN, 1Gbps) - WAN : Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block)
	USB	Front 2EA (USB2.0), Rear 1 (USB3.0)
	Ext. Storage Serial	N/A N/A
	Reset	Switch (1EA)
SYSTEM	Power Cord	Included
Log	Log List	Max. 20000 (System Log. Event Log each)
ENVIRONMENTAL Operating Temperature / Humidity		+0°Cto+40°C(+32°Fto+104°F)
Humidity		20%~85% RH
ELECTRICAL Pourt	100+2340VAC 1100/	
Power Input Power Consumption		100 to 240 VAC ±10% Max. 158.2W (2HDDs, PoE on), Max. 34.6W (2HDDs, PoE off)
PoE Budget		Max. 120W
MECHANICAL Color/Material		Black/Metal
Dimension (WxHxD) Weight		W370.0 x H44.0 x D320 mm (1U) (14.56" x 1.73" x 12.59") 2.79Ka (6.15 lb) (without HDD)

^{2.79}Kg (6.15 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 Hanuha Techuin, formerly known as Samsung Techwin.