## WISENET Q series

## **QRN-1610S**

16Ch Network Video Recorder with built-in PoE Switch



		QRN-1610S
DISPLAY	Inputs	Max. 16ch
Network	Resolution	CIF~8MP
Camera	Protocols	Wisepet ONVE (Profile-S)
	Local Display	1xHDMI/1xVGA
Live	Multi-Channel Display	Webletdown       (Money)         1/x HDMI/1xVGA       [Local Monitor] 1/2H/2V/3V/4/6/8/9/13/16/Auto Sequence         [Web] 1/4/9/16/Auto Sequence       [Local Monitor] 8MP (60*ps)
DEDEODMANIC	Performance	5MP (90fps), 3MP (120fps), 2MP (240fps), 720p (480fps), D1 (480fps
PERFORMANC Operating System		Linux
operatingsystem	Compression	H.265, H.264, MJPEG
Record	Recording Bandwidth	Max. 128Mbps CIF ~ 8MP
	Resolution Type	Manual, Schedule (Continuous / Event), Event (Pre / Post)
	EventTrigger	Alarm Input (4), Video Loss, Camera event (Sensor, MD, Video analytics, Defocus)
	Event Action	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play	Playback Bandwidth Performance	32Mbps (8ch simultaneously) 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 Resolution	Max.8ch (Local), Max 16ch (Network) CIF~8MP
	Fish-Eye Dewarping	N/A (processed on Web / CMS)
	Playback Control	Past/Slow Forward / Backward, Move one step Up / Down 0 ~ 6TB
Storage	Default Built-In Internal	2 (Max 12TB)
Backup	File backup	BU/Exe (USB), JPG/AVI (Web, CMS) Multi channel (Upto 16ch) Play, Date-Time/Title display
	Function	Multi channel (Upto 16ch) Play, Date-Time / Title display
Sensor	I/O Input	4/2 (NO 1EA, NO / NC 1EA) 16 ch (network)
Audio	Compression	G.711, G.726, AAC (16 / 48KHz)
	Audio Communication	2-Way
NETWORK		TCP / IP LIDP / IP RTP (LIDP) RTP (TCP) RTSP NTP HTTP DHCP (Server Client)
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
DDNC		SUNAPI (Server, Client)
DDNS Transmission Bandwidth Max Remote Users		Hanwha Security DDNS 128Mbps Search (3), Live Unicast (10), Multicast (20)
		Search (3), Live Unicast (10), Multicast (20)
IP Version		IPv4 / IPv6
Security		User access Log, IP Filtering, 802.1x, Encryption English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish,
Language	GUI	Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek,
		Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish,
	Web	Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek,
05		Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai
OS		Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11 Plug-in free web viewer : Google Chrome 47, MS Edge 20
Web Browser		Plug-in Webviewer : MS Explorer 11, Apple Safari 9 (Mac OS X only)
Viewer Software FUNCTIONS	Type	SSM, Webviewer, Smart Viewer, Wisenet Mobile Support SDK / CGI (SUNAPI)
	CMS Support	Support SDR/ CGI (SUNAPI)
	Register	PnP, Manual
Company Coltum		IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD
Camera Setup	Setup Items	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
For Confirmention		Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration) ,
Easy Configurat	ion	P2P (QR code)
ARB PTZ	Control	Yes Via GUI, Webviewer, 255 preset
F1Z	Support Model	
Smart phone	Protocol Support	iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI)
	Control Max. Remote Users	Live (16ch): Multi-Profile Support, Playback (4ch), Event push
System Control	Max. Nel Hole Osels	Ltive (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control
INDICATOR/IN	TERFACE	
Front	Indicator	LED (Status indicator) : 6ea HDD action 1 Alarm 1 Power 1 Record 1 Backup 1 Network1
Connectors	VGA	HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720)
	HDMI	TEA (3840 x 2160, 1920 x 1080, 1280 x 720) Out (1EA, RCA, Line)
	Audio	Out (1EA, RCA, Line)
	Ethernet	TidEA (PC 100Mbps) TEA (WAN, 1Gbps) - WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Event J Tek (MER) (MER)
	Alarm	In (4EA, Terminal Block) / Out (2EA, Terminal Block)
	USB Ext Storage	FIGHTZEA (USDZ.U), Red T (USDS.U)
	Ext. Storage Serial	N/A N/A
	Reset	Switch (1EA)
SYSTEM	Power Cord	Included
Log	Log List	Max. 20000 (System Log, Event Log each)
ENVIRONMENT	TAL T	
Operating Temp	perature / Humidity	+0°C to +40°C (+32°F to +104°F) 20% ~ 85% BH
Humidity ELECTRICAL		2070~0370 KH
PowerInput		100 to 240 VAC ±10%
Power Consumption		Max. 158.2W (2HDDs, PoE on), Max. 34.6W (2HDDs, PoE off)
PoEBudget		Max. 100W
MECHANICAL Color/Material		Black/Metal
Dimension (WxHxD)		Diacity metal
Dimension (Wx Weight	HxD)	W370.0 x H44.0 x D320 mm (1U) (14.56" x 1.73" x 12.59") 2.79Kg (6.15 lb) (without HDD)

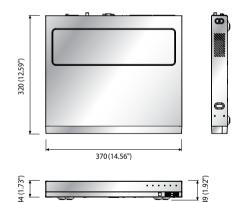
## **Key Features**

- 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)



\* 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.

