

QRN-1610S

16CH 8M H.265 NVR with 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

Display

Network camera	Inputs	Max. 16CH
	Resolution	8MP ~ CIF
	Protocols	Wisenet, ONVIF
Decoding	Local Display	[Clone Display] HDMI: 3840 x 2160, 1920x1080, 1280x720 VGA: 1920x1080, 1280x720
	Resolution	8MP(60fps), 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(480fps), D1(480fps)

Performance

Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 128Mbps
	Resolution	8MP ~ CIF
	Mode	Normal, Schedule(Continuous/Event), Event (Pre/Post)
	Event Trigger	Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus)
	Event Action	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play	Playback Bandwidth	Max. 32Mbps(16CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 16CH(Network) Max. 8CH(Local Monitor)
	Fisheye Dewarping	N/A (processed on Web / CMS)
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max. 12TB)
Backup	File backup	BU/Exe(GUI), JPG/AVI(Network)
	Function	Multi channel(Upto 8CH) Play, Date-Time/Title display

Network

Protocol	IPv4, IPv6, 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	Wisenet DDNS	
Transmission Bandwidth	Max. 128Mbps	
Audio	Input/Output	16 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	IP address filtering, User access Log, 802.1x, Encryption	
Web viewer	Supported OS	Windows 7, 8, 10, Mac OS X 10.9. 10.10. 10.11
	Supported browser	Plug-in free web viewer - Supported Browser: Google Chrome 47, MS Edge 20 Plug-in Webviewer - Supported MS Explore 11, Apple Safari 9 * Mac OS X only

Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS	
Functions		
Camera Setup	Item	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, SSSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ	Control	Via GUI, Webviewer, SPC-2000
Smart phone	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live(Multi-Profile Support), Playback
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy	ARB	Support
Easy configuration	P2P(QR code)	
Interface		
HDMI	1EA	
VGA	1EA	
Audio	Out(1EA, RCA, Line)	
Ethernet	RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 16	
Alarm	In 4EA, Out 2EA	
USB	2EA(Front 1, Rear 1)	
Power inlet	AC 1EA	
System		
System Control	Mouse, IR remocn, Web, Controller	
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai	
Environmental		
Operating Temperature	0°C to +40°C(32°F to 104°F)	
Operating Humidity	20% ~ 85% RH	
Electrical		
Power Input	100~240VAC±10%	
Power Consumption	Max. 158.2W(2HDDs, PoE on) Max. 34.6W(2HDDs, PoE off)	
PoE Budget	Max. 100W	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	W370.0 x H44.0 x D320 mm (14.57" x 1.73" x 12.6") (1U)	
Weight	2.79Kg (6.15lb)	

- The latest 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.

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UNIT : mm [inch]

