WISENET Q series



QRN-820S

8CH 8MP NVR with PoE switch

Benefits

- · Plug and play, easy installation
- · Event record and search
- HDMI output for video display
- Dual track recording can record high resolution stream and VGA stream at the same time, reducing video delay
- Support independent display. User can set different Split view mode
- Easily connect to NVR from anywhere with your smartphone through Wisenet Mobile Application

Key Features

- Up to 8CH 8MP resolution
- H.265, H.264, MJPEG codec
- · WiseStream support
- · USB keyboard supported
- Support SUNAPI and ONVIF Profile
- 80Mbps network camera recording
- Plug & play by 8 PoE port
- Max. 1 HDD(Up to 6TB)
- HDMI, VGA output
- P2P service(QR code)

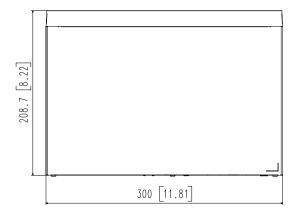
	QRN-820S	
DISPLAY		
NETWORK CAMERA		
Inputs	Max. 8CH	
Resolution	8MP ~ CIF	
Protocols	Wisenet, ONVIF	
DECODING		
Local Display	HDMI: 3840 x 2160, 1920x1080, 1280x720	
Resolution	8MP(60fps), 5MP(90fps), 3MP(120fps), 2MP(240fps), 720p(240fps), D1(240fps)	
PERFORMANCE		
RECORD		
Compression	H.265, H.264, MJPEG	
Recording Bandwidth	Max. 80Mbps	
Resolution	8MP ~ CIF	
Mode	Normal, Schedule(Continuous/Event), Event (Pre/Post), Dual track Recording	
Event Trigger	Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus)	
Event Action	e-Mail, PTZ Preset, Buzzer, Monitor Out	
SEARCH & PLAY		
Playback Bandwidth	Max. 32Mbps(8CH simultaneously)	
User	Max. 4 Users (Local 1, Remote 3)	
Simultaneous playback	Max. 8CH(Local Monitor, Network)	
Fisheye Dewarping	WEB / CMS / Mobile	
STORAGE		
Supported HDD	Up to 6TB	
HDD Slot	SATA 1ea(Max. 6TB)	
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	
AUDIO		
Input/Output	8CH(network)	
Compression	G.711, G.726, AAC(16/48KHz)	
Audio Communication	2-Way	
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA)	
Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS	

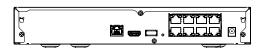


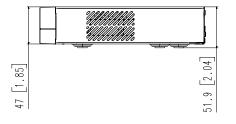
WISENET Q series

Dimensions

Unit:mm(inch)







Tem IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage PTZ Control Via GUI, Webviewer SMART PHONE Support Model iOS, Android Protocol Support RTP, RTSP, HTTP, HTTPS, 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 Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 2EA(Front 1, Rear 1) SYSTEM System Control Mouse, IR remocon, Web Language English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norweglan, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) POE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)			
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Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage PTZ Control Via GUI, Webviewer SMART PHONE Support Model IOS, Android Protocol Support RTP, RTSP, HTTP, HTTPS, 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 Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 USB 2EA(Front 1, Rear 1) SYSTEM System Control Mouse, IR remocon, Web 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, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Consumption Max. 76.2W(1HDD, PoE on) Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	CAMERA SETUP		
Control Via GUI, Webviewer SMART PHONE Support Model iOS, Android Protocol Support RTP, RTSP, HTTP, HTTPS, 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 Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 USB 2EA(Front 1, Rear 1) SYSTEM System Control Mouse, IR remocon, Web 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, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) POE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Item	Camera MD setup, Wisestream, Dynamic GOV/FPS, VA Setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping	
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Support Model Protocol Support RTP, RTSP, HTTP, HTTPS, CGI(SUNAPI) Live(Multi-Profile Support), Playback Search(3), Live Unicast(10) REDUNDANCY ARB Support Easy configuration P2P(QR code) INTERFACE HDMI 1EA Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 USB 2EA(Front 1, Rear 1) SYSTEM System Control 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, Vietnamese ENVIRONMENTAL Operating Temperature Operating Temperature Operating Humidity CTO	Control	Via GUI, Webviewer	
Protocol Support Control Cive(Multi-Profile Support), Playback Max. Remote Users REDUNDANCY ARB Support Easy configuration INTERFACE HDMI 1EA Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 USB 2EA(Front 1, Rear 1) System Control 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, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) MeCHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	SMART PHONE		
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 Ethernet RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 USB 2EA(Front 1, Rear 1) SYSTEM System Control Mouse, IR remocon, Web 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, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Temperature 20% ~ 85% RH ELECTRICAL Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Support Model	iOS, Android	
Max. Remote Users REDUNDANCY ARB Support Easy configuration P2P(QR code) INTERFACE HDMI IEA RJ-45(10/100/1000BASE-T) x 1 RJ-45(PoE+) x 8 2EA(Front 1, Rear 1) SYSTEM System Control 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, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Protocol Support	RTP, RTSP, HTTP, HTTPS, CGI(SUNAPI)	
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Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese ENVIRONMENTAL Operating Temperature O°C to +40°C(32°F to 104°F) Operating Humidity 20% ~ 85% RH ELECTRICAL Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Dimension (WxHxD) Black / Metal Dimension (WxHxD) Dimension (WxHxD)	System Control	Mouse, IR remocon, Web	
Operating Temperature O°C to +40°C(32°F to 104°F) 20% ~ 85% RH ELECTRICAL Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Dimension (WxHxD) O°C to +40°C(32°F to 104°F) Max. 85% RH 54VDC / 1.67A Max. 76.2W(1HDD, PoE off) Max. 65.2W(1HDD, PoE off) Max. 65W MECHANICAL W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Language	Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese,	
Operating Humidity 20% ~ 85% RH ELECTRICAL Power Input 54VDC / 1.67A Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Dimension (WxHxD) 20% ~ 85% RH Max. 67A Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) Max. 8.1W(1HDD, PoE off) Max. 65W MECHANICAL W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	ENVIRONMENTAL		
Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Dimension (WxHxD) Black / Metal W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Operating Temperature	0°C to +40°C(32°F to 104°F)	
Power Input 54VDC / 1.67A Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Dimension (WxHxD) Black / Metal W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Operating Humidity	20% ~ 85% RH	
Power Consumption Max. 76.2W(1HDD, PoE on) Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	ELECTRICAL		
Max. 8.1W(1HDD, PoE off) PoE Budget Max. 65W MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Power Input	54VDC / 1.67A	
MECHANICAL Color / Material Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	Power Consumption		
Black / Metal Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	PoE Budget	Max. 65W	
Dimension (WxHxD) W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	MECHANICAL		
	Color / Material	Black / Metal	
Weight 1.01Kg (2.23lb)	Dimension (WxHxD)	W300.0 x H47.1 x D208.4 mm (11.8" x 1.85" x 8.2") (1U)	
	Weight	1.01Kg (2.23lb)	

- * 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.

