WISENET Q series

## **QRN-1610S**

16Ch Network Video Recorder with built-in PoE Switch



DISPLAY		QRN-1610S
	Inputs	Max. 16ch
Network		CIF~8MP
Camera	Resolution Protocols	Vie~ 8MP Wisenet, ONVIF (Profile-S)
	Local Display	1xHDMI/1xVGA
Live	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 (480fp
PERFORMANCE		
Operating System		Linux
	Compression	H.265, H.264, MJPEG
Record	Recording Bandwidth	Max.128Mbps
	Resolution	CIF ~ 8MP Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Type Event Trigger	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	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	CIF~8MP
	Fish-Eye Dewarping	N/A (processed on Web / CMS)
	Playback Control Default Built-In	Fast/Slow Forward / Backward, Move one step Up / Down 0 ~ 6TB
Storage	Internal	2 (Max.12TB)
	File backup	BU / Exe (USB), JPG / AVI (Web, CMS)
Backup	Function	Multi channel (Upto 16ch) Play, Date-Time / Title display
Sensor	1/0	4/2 (NO 1EA, NO/NC 1EA)
	Input	16 ch (network)
Audio	Compression	G.711, G.726, AAC (16 / 48KHz)
	Audio Communication	2-Way
NETWORK		
		TCP / IP, UDP / IP, RTP (UDP), 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- SUNAPI (Server, Client)
DDUG		SUNAPI (Server, Client)
DDNS	a di childi	Hanwha Security DDNS
Transmission Ba		128Mbps Search (3), Live Unicast (10), Multicast (20)
Max Remote Use IP Version	ers	IPv4/IPv6
Security		User access Log, IP Filtering, 802.1x, Encryption
Security		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedis
	GUI	Czech. Portuguese. Danish. Rumanian. Serbian. Croatian. Hungarian. Greek.
Language		Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai
		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedisl
	Web	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedisl Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai
OS		Windows 7, 9, 10, Mac OS X 10,0, 10, 10, 10, 11
US		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	Type	SSM, Webviewer, Smart Viewer, Wisenet Mobile
Software	CMS Support	Support SDK / CGI (SUNAPI)
FUNCTIONS		
	Register	PnP, Manual
		IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD
		setup, Camera video setup (Simple focus, Brightness / Contrast, Flip / Mirror, IRIS
Camera Setup	Setup Items	
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 Websited
Camera Setup	Setup Items	Setup, Camera Webpage
		Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot
Camera Control	PoE	Setup, Camera Webpage
Camera Control Easy Configurati	PoE	Setup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code)
Camera Control	PoE	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes
Camera Control Easy Configurati ARB	PoE	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset
Camera Control Easy Configurati ARB	PoE on Control Support Model	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset iPhone, Android
Camera Control Easy Configurati ARB PTZ	PoE on Control Support Model Protocol Support	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI)
Camera Control Easy Configurati ARB PTZ	PoE on Control Support Model Protocol Support Control	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push
Camera Control Easy Configurati ARB PTZ Smart phone	PoE on Control Support Model Protocol Support	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20)
Camera Control Easy Configurati ARB PTZ Smart phone System Control	PoE on Control Support Model Protocol Support Control Max. Remote Users	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push
Camera Control Easy Configurati ARB PTZ Smart phone System Control	PoE on Control Support Model Protocol Support Control Max. Remote Users	Setup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users	Settup, Camera Webpage Monitor Poe Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator	Settup, Camera Webpage Monitor Poe Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (1fsch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1
Camera Control Easy Configurati	PoE ion Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA	Settup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI	Settup, Camera Webpage Monitor ProB Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (340x2160, 1920x1080, 1280x720)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio	Settup, Camera Webpage Monitor Poe Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) LEA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) JGFA (PoE 100Mbns)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI	Settup, Camera Webpage Monitor Poe Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) LEA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) JGFA (PoE 100Mbns)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio	Settup, Camera Webpage Monitor Poe Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) LEA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) JGFA (PoE 100Mbns)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front	PoE ion Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUINAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (3840x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WSL 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WSL 2160, 1920x1080, 1280x720) Out (1EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial	Settup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (Ach), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (APOE, 100Mbps) 1EA (WAN, 1Gbp5)-WAN; Uplinkto CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset	Setup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (Avan, 1Gbps)- WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial	Settup, Camera Webpage Monitor PoE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUJ, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (Ach), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (APOE, 100Mbps) 1EA (WAN, 1Gbp5)-WAN; Uplinkto CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (Wok 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (Wok 1, Gbps): -WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A Switch (1EA) Included
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord	Setup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR code) Yes Via GUI, Webviewer, 255 preset Phone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 1EA (Avan, 1Gbps)- WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT	PoE Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord Log List AL	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PAE 100Mbps) 1EA (WAN, 1Gbps)-WAN; Uplink to CMS In (4EA, Terminal Block), / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A Included Max.20000 (System Log, Event Log each)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Operating Temp	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUINAPI) Live (16ch) : Multi-Profile Support, Playback (Ach), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator) : 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (3840 x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WAS x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WAS x 16bp) - WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A Switch (1EA) Included Max. 20000 (System Log, Event Log each) +0°C to +40°C (+32°F to +104°F)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Operating Temp Operating Temp	PoE Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord Log List AL	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PAE 100Mbps) 1EA (WAN, 1Gbps)-WAN; Uplink to CMS In (4EA, Terminal Block), / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A Included Max.20000 (System Log, Event Log each)
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Operating Temp Operating Temp	PoE Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord Log List AL	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE 100Mbps) 1EA (WAN, 1Gbps)-WAN; Uplink to CMS In (4EA, Terminal Block), / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A Included Max. 20000 (System Log, Event Log each) +0°C to +40°C (+32°F to +104°F) 20%~ 85% RH
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Operating Temp Humidity ELECTRICAL	PoE Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Ext. Storage Serial Reset Power Cord Log List AL	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Vra GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUINAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x 2160, 1920x 200) Dut (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WSA 2160, 1920x 1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1FA (WAA X, IGbps) - WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A Switch (1EA) Included +0°C to +40°C (+32°E to +104°E) 20%~ 85% RH 100 to 240 VAC ±10%
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Operating Temp Humidity ELECTRICAL Power Input	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Etx. Storage Serial Reset Power Cord Log List AL erature / Humidity	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), PZP (QR Code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x1080, 1280x720) 1EA (3840x 2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE 100Mbps) 1EA (WAN, 1Gbps)-WAN; Uplink to CMS In (4EA, Terminal Block), / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A N/A Included Max. 20000 (System Log, Event Log each) +0°C to +40°C (+32°F to +104°F) 20%~ 85% RH
Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR / IN Front Connectors SYSTEM Log ENVIRONMENT Humidity ELECTRICAL Power Consump	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Etx. Storage Serial Reset Power Cord Log List AL erature / Humidity	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR Code) Yes Vra GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUINAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x 2160, 1920x 200) Dut (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1EA (WSA 2160, 1920x 1080, 1280x720) Out (1EA, RCA, Line) 16EA (PoE, 100Mbps) 1FA (WAA X, IGbps) - WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A Switch (1EA) Included +0°C to +40°C (+32°E to +104°E) 20%~ 85% RH 100 to 240 VAC ±10%
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Camera Control Easy Configurati ARB PTZ Smart phone System Control INDICATOR/IN Front Connectors SYSTEM Log ENVIRONMENT OperatingTemp Humidity ELECTRICAL Power Input Power Consump Powe	PoE on Control Support Model Protocol Support Control Max. Remote Users TERFACE Indicator VGA HDMI Audio Ethernet Alarm USB Etx. Storage Serial Reset Power Cord Log List AL erature / Humidity	Settup, Camera Webpage Monitor POE Power consumption, On / Off Control for each PoE camera, Remot Reset for each PoE camera Setup Wizard (Date / Time, Network, Auto Camera Configuration), P2P (QR code) Yes Via GUI, Webviewer, 255 preset iPhone, Android RTP, RTSP, HTTP, CGI (SUNAPI) Live (16ch): Multi-Profile Support, Playback (4ch), Event push Search (3), Live Unicast (10), Multicast (20) Mouse, Web, IR Remote control LED (Status indicator): 6ea HDD action 1, Alarm 1, Power 1, Record 1, Backup 1, Network1 1EA (1920x 1260, 1280x720) Out (1EA, RCA, Line) 16EA (P0E, 100Mbps) 1FA (WABA v2160, 1920x1080, 1280x720) Out (1EA, RCA, Line) 16EA (NoE, 100Mbps) 1FA (WABA, 1Gbps)- WAN: Uplink to CMS In (4EA, Terminal Block) / Out (2EA, Terminal Block) Front 2EA (USB2.0), Rear 1 (USB3.0) N/A N/A Switch (1EA) Included 100 to 240 VAC ±10% Max, 182.W (2HDDs, PoE on), Max, 34.6W (2HDDs, PoE off)
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## \* 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 Sam

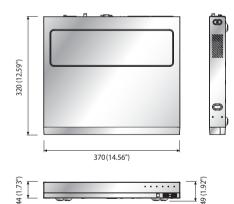
**Key Features** 

- 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)



re subject to change without notice.	
orand of Hanwha Techwin, formerly	/ known as Samsun
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