

XRN-1610

16CH Network Video Recorder

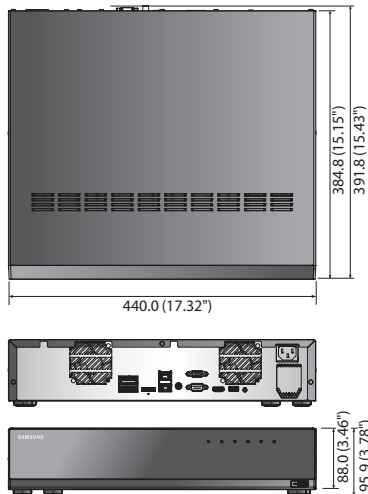


Key Features

- Up to 16CH, 12-megapixel cameras supported
- H.265, H.264, MJPEG codec supported
- WiseStream support
- 180Mbps network camera recording
- Max. 8 HDDs, e-SATA storage supported
- HDMI / VGA local monitor

Dimensions

Unit : mm (inch)



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DISPLAY		
Video	Inputs / Resolution	Up to 16CH / CIF ~ 12MP
	Protocols	Wisnet, ONVIF, RTSP
	Local Display	1x HDMI, 1x VGA dual monitor
Live	Multi Screen Display	[Local monitor] 1 / 2V / 3V / 4 / 6 / 8 / 9 / 13 / 16 / Auto sequence, [Web] 1 / 4 / 9 / 16 / Auto sequence
	Performance	[Local monitor] 12MP (30fps), 8MP (120fps), 5MP (180fps), 3MP (240fps), 2MP (480fps), 720p (480fps), D1 (480fps) [Web] 5MP (30fps), 3MP (60fps), 2MP (120fps), 720p (240fps), D1 (480fps)
PERFORMANCE		
Operating System	Embedded	Linux
Recording	Compression	H.265, H.264, MJPEG, WiseStream (H.265, H.264)
	Recording Bandwidth	180Mbps
	Resolution	CIF ~ 12MP
	Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Event Trigger	Alarm input (8), Video loss, Camera event (Sensor, MD, Video analytics), VA event (Tampering, Enter / Exit, Passing, Virtual-line, (Dis)Appear, Face detection, Audio Detection), Defocus camera event
Search & Playback	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
	Playback Bandwidth	32Mbps (16CH simultaneously)
	Performance	Max. 4 users (Set 1, Remote 3)
	Mode	Date & Time (Calendar) / Event log list / Text search (POS, ANPR)
	Simultaneous Playback	Max. 16CH (Local monitor, Network)
Storage	Resolution	CIF ~ 12MP
	Fish-eye Dewarping	Processed on Web / CMS
	Playback Control	Fast/Slow Forward/Backward, Move one step up/down
	Default Built-in	0TB ~ 8TB
Backup	Internal / External	8 SATA (Max. 64TB) / 1 e-SATA, iSCSI (Max. 384TB * PROMISE VESSRAID R2600)
	File Backup Function	BU/EXE (GUI), JPG/AVI (Network)
Sensor	Input / Output	8 / 4 (NO/NC selectable)
Audio	Input / Compression	16CH (Network) / G.711, G.726, AAC (16/48KHz)
	Audio Communication	2-way (Pass-through between camera and client software)
NETWORK		
Protocol Support		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		Hanwha DDNS, 3rd party DDNS
Transmission Bandwidth		Max. 256Mbps (iSCSI off) (128Mbps, iSCSI on)
Max. Remote Users		Search 3 / Live unicast 10 / Live multicast 20
IP		IPv4 / IPv6
Security		IP address filtering, User access log, 802.1x authentication, Encryption (ID/PW, Recording, Transmission, Backup)
Language	GUI / Web	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai (GUI)
OS		Supported OS : Window XP (Service pack 2 or above), Vista, 7, 8, 10, Mac OS X (10.7 or above)
Web Browser		Plug-in free Webviewer
		- Supported Browser : Google Chrome 47, MS Edge 20, Mozilla Firefox
		- WMF : 1CH live (800 x 600), Setup
Viewer Software	Type	Plug-in Webviewer
	CMS Support	- Supported Browser : MS Explorer 11, Apple Safari 9 * Mac OS X only Wisenet WAVE, SSM, Webviewer, SmartViewer, Wisenet Mobile viewer
		SDK / CGI (SUNAPI)
FUNCTIONS		
Camera Setup	Register	Auto mode, Manual mode
	Setup Items	1) IP address, Add profile edit, Bitrate, Compression, GOP, Quality
		2) Camera event setup - MD, VA : Tampering, Enter / Exit, Passing (Virtual-line), (Dis)Appear, Face detection, Audio detection
		3) Video setup (Simple focus, Brightness / Contrast, Flip / Mirror, IRIS, WDR, D&N, SSNR, Shutter, SDR, DIS)
	4) Fisheye dewarping, Hallway view setup, Camera webpage	
Easy Configuration		Setup Wizard (Language Date/Time, Network, Auto camera configuration)
ARB (Auto Recovery Backup)		Yes
PTZ	Control / Preset	Via GUI, Webviewer, SPC-2000 (USB) / 255 presets
	OS	Android, iOS
Smart Phone	Protocol Support	RTP, RTSP, HTTP, CGI (SUNAPI)
	Control	Live (16CH) : Multi-profile support, Playback
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
System Control		Mouse, IR Remote, Web, SPC-2000 (USB)
INDICATOR / INTERFACE		
Front	Indicator	Power status LED 1ea, HDD action LED 1ea, Alarm status LED 1ea
	USB	Record status LED 1ea, Network action LED 1ea, Backup LED 1ea
Connections	HDMI	2ea (Front 1ea / Rear 1ea)
	VGA	1ea (Supports Live / Playback / Setup)
	Audio / Serial	Support up to 4K (3840 x 2160, Single monitor mode)
	Ethernet	1ea (Supports Playback, Setup, Live screen up to 16 division mode)
	Alarm	Out 1ea (RCA, Line) / 1 ea for UPS (Plan to support as project basis)
	Reset / Power Cord	2ea (LAN/WAN, 1Gbps) - LAN : Uplink to camera switch - WAN : Uplink to CMS/LAN
		In 8ea (Terminal block) / Out 4ea (Terminal block) Yes
		(Factory reset, Alarm reset) / Included
SYSTEM		
Log	Log List	Max. 20,000 (System log, Event log each)
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC
	Power Consumption	Max. 76.3W (8 HDDs)
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 85% RH
Mechanical	Color / Material	Black / Metal
	Dimensions (WxHxD)	440.0 x 88.0 x 384.8mm (17.32" x 3.46" x 15.15") (2U)
	Weight	5.44Kg (11.99 lb)

* The latest product information / specification can be found at hanwhasecurity.com
 * Design and specifications are subject to change without notice.
 * Wisenet is the proprietary brand of Hanwha Techwin.