16CH NETWORK VIDEO RECORDER
XRN-1610

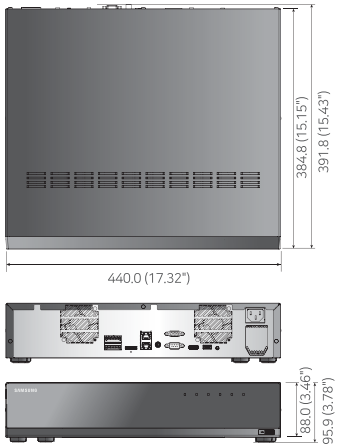


FEATURES

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

DIMENSIONS

Unit: mm(inch)



SPECIFICATION

DISPLAY		
Video	Inputs / Resolution	Up to 16CH / CIF ~ 12MP
	Protocols	Samsung, ONVIF
Live	Local Display	1x HDMI, 1x VGA dual monitor
	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
	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
Search & Playback	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)
	Resolution	CIF ~ 12MP
	Fish-eye Dewarping	Processed on Web / CMS
	Playback Control	Fast/Slow Forward/Backward, Move one step up/down
Storage	Default Built-in	0TB ~ 6TB
	Internal / External	8 SATA (Max. 48TB) / 1 e-SATA, iSCSI (Max. 384TB * PROMISE VESSRAID R2600)
Backup	File Backup	BU/EXE (GUI), JPG/AVI (Network)
	Function	Max. 16CH play, Date-time/title display
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 SSM)
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		iPOLiS 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 - WMF : 1CH live (800 x 600), Setup Plug-in Webviewer - Supported Browser : MS Explore 11 , Mozilla Firefox 43 , Apple Safari 9 * Mac OS X only
Viewer Software	Type	SSM, Webviewer, SmartViewer, iPOLiS mobile viewer
	CMS Support	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, SSDR, 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
Smart Phone	OS	Android, iOS
	Protocol Support	RTP, RTSP, HTTP, CGI (SUNAPI)
	Control	Live (16CH) : Multi-profile support, Playback (1CH, Max. 2MP)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
System Control		Mouse, IR Remocon, Web, SPC-2000 (USB)
INDICATOR / INTERFACE		
Front	Indicator	Power status LED 1ea, HDD action LED 1ea, Alarm status LED 1ea Record status LED 1ea, Network action LED 1ea, Backup LED 1ea
	USB	2ea (Front 1ea / Rear 1ea)
Connections	HDMI	Main : 1ea (Both support Live / PB / Setup) Support up to 4K (3840 x 2160, Single monitor mode)
	VGA	Sub : 1ea (Support Live screen up to 16 div. mode)
	Audio / Serial	Out 1ea (RCA, Line) / 1ea for UPS (Plan to support as project basis)
	Ethernet	2ea (LAN/WAN, 1Gbps) - LAN : Downlink to camera / PoE (PoE+) Hub - WAN : Uplink to CMS
	Alarm	In 8ea (Terminal block) / Out 4ea (Terminal block)
	Reset / Power Cord	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)