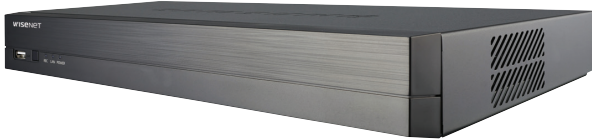


HRD-840

16CH 4M Analog HD DVR

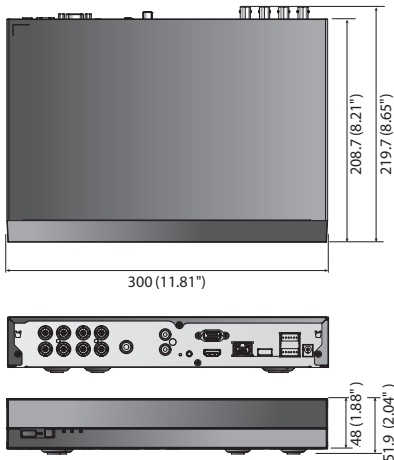


Key Features

- 16CH 4MP AHD DVR
- TVI, CVI (Max. 2MP), Analog camera input
- Up to 120 / 100 (4MP)fps recording rate
- Up to 240 / 200 (1080p)fps recording rate
- HDMI / VGA video output
- 1CH audio input / 1CH audio output
- Up to 1 internal HDD (Max. 6TB)
- Coaxial cable (Pelco-C, ACP)
- Smartphone support

Dimensions

Unit : mm (inch)



		HRD-840
DISPLAY		
Video	Inputs	16CH BNC : AHD (2MP, 4MP), TVI (2MP), CVI (2MP), NTSC / PAL
	Resolution	2560 x 1440, 1920 x 1080, 960 x 480, 704 x 480, 960 x 576, 704 x 576
Live	Frame Rate	240fps / 200fps
	Resolution	2560 x 1440, 1920 x 1080, 960 x 480, 704 x 480, 960 x 576, 704 x 576
	Multi Screen Display	1 / 4 / 7 / 9 / PIP / Sequence
PERFORMANCE		
Operating System	Embedded	Linux
	Compression	H.264
Recording	Record Rate (Analog)	NTSC : Up to 120fps@4MP / PAL : Up to 100fps@4MP NTSC : Up to 240fps@1920 x 1080 / PAL : Up to 200fps@1920 x 1080 NTSC : Up to 240fps @ 1280 x 720, 928 x 480, 704 x 480, 704 x 240, 352 x 240 PAL : Up to 200fps @ 1280 x 720, 928 x 576, 704 x 576, 704 x 288, 352 x 288
	Mode	Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 ~ 30 fps (N), 1 ~ 25fps (P))
	Event	Video Loss, Motion (Level 1 ~ 10), Alarm, Tampering (Level Low, Medium, High)
	Overwrite Modes	Continuous
	Pre-alarm	Up to 30 sec (5, 10, 20, 30 Sec)
	Post-alarm	Up to 6 hour (5, 10, 20, 30 Sec, 1, 3, 5, 10, 20 min, 1, 2, 3, 4, 5, 6 hour)
Search & Playback	Search Mode	Date / time, Event, Back up, Motion (※ All Search Included Preview Function)
	Playback Function	Fast forward / Backward (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with I-frame only Slow forward / Backward (1/2x, 1/4x, 1/8x) Step Forward / Backward ※ Backward Play with I-frame only
Network (IPv4)	Transmission Speed	Record (Main) Stream 4MP : 15fps / CH, 1080p / 720p / WD1 / 4CIF / CIF : 30fps / CH (N), 25fps / CH (P) Network (Sub) Stream WD1 / 4CIF : 12fps / CH, 2CIF / CIF : 30fps / CH (N), 25fps / CH (P)
	Bandwidth	Up to 64Mbps
	Bandwidth Control	Selectable
	Stream	Record stream and network stream selectable (at monitoring viewer)
	Max. Remote Users	Search (3) / Live Unicast (10) / Live Multicast (20)
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP
Smart Phone	Monitoring	SSM, Webviewer, SmartViewer, iPOLiS mobile viewer
	Platform	Android, iOS
	Protocol Support	RTP, RTSP, HTTP
Storage	Control	Live (8ch) : Multi-Profile Support Playback (1ch)
	Max. Remote Users	Search (3), Live Unicast (10), Multicast (20)
Internal HDD	Internal HDD	1 SATA HDD (0 ~ 6TB HDD)
	External (e-SATA Interface)	USB (for Backup)
File Format (Backup)	File Format (Backup)	BU (DVR player), SEC (Include player), AVI
	Password Protection	1 Admin, 10 group, 10 User per 1 group
Security	Data Authentication	Watermark
	INTERFACE	
Monitors	VGA	1 VGA (1920 x 1080, 1280 x 1024, 1280 x 720)
	HDMI	1 HDMI (4K (3840 x 2160), 2K (2560 x 1440), 1920 x 1080, 1280 x 1024, 1280 x 720)
	Spot Composite	BNC (1CH) ※ Included OSD on screen, Multi mode support
Audio	Inputs / Output	1CH line in / 1CH line out
	Compression	G.711
	Sampling Rate	8KHz
Alarm	Inputs / Output	Terminal 4 inputs (NO/NC) / Terminal 1 relay outputs (NO/NC)
	Remote Notification	Notification Via e-mail
Connections	Ethernet	1 RJ45 10/100/1000 Base-T
	Serial Interface	RS-485 (Half duplex) for PTZ, Samsung System Keyboard
	USB	1 ports (USB 3.0, Rear), 1 ports (USB 2.0, Front)
	e-SATA	N/A
	Application Support	Mouse, IR remotecon
	RS-485 Protocol	Samsung-E / Samsung-T / Pelco-D / Pelco-p / Panasonic / Phillips / AD / DIAMOND / ERNA / KALATEL / VCLTP / VICON / ELMO / GE
Coax Protocol	NTSC / PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax Protocol)	
GENERAL		
Electrical	Input Voltage / Current	12V DC adaptor (100 ~ 250V AC ±10%, 50/60Hz)
	Power Consumption	Max. 19W (1 x 4TB HDD)
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	300.0 x 48.0 x 208.7mm (11.81" x 1.88" x 8.21")
	Weight (With hard disks)	Approx. 1.77Kg (3.9 lb) (with 4TB HDDs)
LANGUAGE	GUI	English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Rumania, Serbia, Croatia, Hungary, Greek, Finnish, Norwegian, Korean, Japanese, Chinese (Traditional), Thai, Taiwanese (25 Language)
	Web Browser	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese (Simplified), Japanese, Thai (23 Language)

* 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.