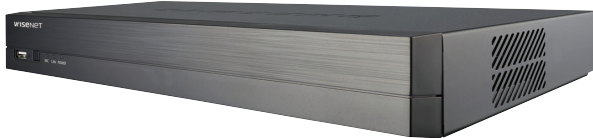


# HRD-440

4CH 4M Analog HD DVR

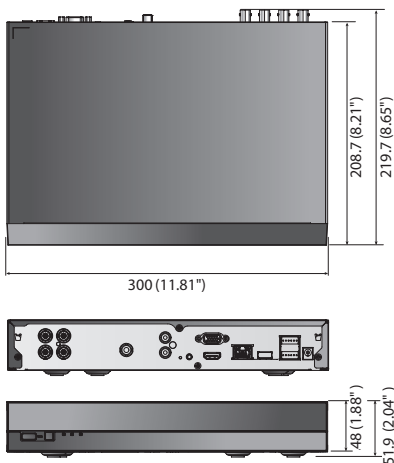


## Key Features

- 4CH 4MP AHD DVR
- TVI, CVI (Max. 2MP), Analog camera input
- Up to 60/ 50 (4MP)fps recording rate
- Up to 120/ 100 (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-440

DISPLAY		
Video	Inputs	4channel BNC : AHD (2MP, 4MP), TVI (2MP), CVI (2MP), NTSC / PAL
	Resolution	2560 x 1440, 1920 x 1080, 1280 x 720, 960 x 480, 704 x 480 / 960 x 576, 704 x 576
Live	Frame Rate	120fps / 100fps
	Resolution	2560 x 1440, 1920 x 1080, 1280 x 720, 960 x 480, 704 x 480 / 960 x 576, 704 x 576
	Multi Screen Display	1 / 4 / PIP / Sequence
PERFORMANCE		
Operating System	Embedded	Linux
	Compression	H.264
Recording	Record Rate (Analog)	NTSC : Up to 60fps@4MP / PAL : Up to 50fps@4MP NTSC : Up to 120fps@1920 x 1080 / PAL : Up to 100fps@1920 x 1080 NTSC : Up to 120fps@1280 x 720, 928 x 480, 704 x 480, 704 x 240, 352 x 240 PAL : Up to 100fps@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
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	Monitoring	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP
	Platform	SSM, Webviewer, SmartViewer, iPOLiS mobile viewer
Smart Phone	Protocol Support	Android, iOS
	Control	RTP, RTSP, HTTP
	Max. Remote Users	Live (8ch) : Multi-Profile Support Playback (1ch) Search (3), Live Unicast (10), Multicast (20)
Storage	Internal HDD	1 SATA HDD (0 ~ 6TB HDD)
	External (e-SATA Interface)	USB (for Backup)
	File Format (Backup)	BU (DVR player), SEC (Include player), AVI
Security	Password Protection	1 Admin, 10 group, 10 User per 1 group
	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
Alarm	Sampling Rate	8KHz
	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 remocon
	RS-485 Protocol	Samsung-E / Samsung-T / Pelco-D / Pelco-p / Panasonic / Phillips / AD / DIAMOND / ERNA / KALATEL / VCL TP / 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. 1.75Kg (3.86 lb) (with 4TB HDD)
LAUGUAGE	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 [hanwhasecurity.com](http://hanwhasecurity.com)

\* Design and specifications are subject to change without notice.

\* Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.