

# HRD-442

4CH 4M Analog HD DVR

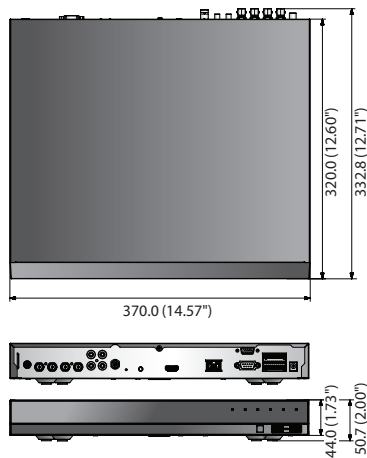


## Key Features

- 4CH 4MP AHD DVR
- TVI, CVI (Max. 2MP), Analog camera input support
- Up to 60 / 50 (4M)fps recording rate
- Up to 120 / 100 (1080p)fps recording rate
- HDMI / VGA video output
- 4CH audio inputs / 1CH audio output
- Up to 2 Internal HDDs
- Coaxial Cable (Pelco-C, ACP)
- Smart phone support (Android, iOS)

## Dimensions

Unit : mm (inch)



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DISPLAY		
Video	Inputs	4CH BNC : AHD (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	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 ~ 30fps(N), 1 ~ 25fps(P))
	Event	Video Loss, Motion (Level 1 ~ 10), Alarm Input (16), 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, Backup, POS (SD Signal only), 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 Stream : 4M : 15fps, 1080p / 720p / WD1 / 4CIF / CIF (NTSC : 30fps, PAL : 25fps) Network Stream : WD1 / 4CIF : 12fps, 2CIF / CIF (NTSC : 30fps, PAL : 25fps)
	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	
	Monitoring	SSM, WebViewer, SmartViewer, iPOLiS Mobile Viewer
Smart Phone	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	Up to 2 SATA HDDs (0 ~ 8TB HDDs)
Security	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)
Audio	Spot Composite	BNC (1CH) ※ Included OSD on screen, Multi mode support
	Inputs / Output	4CH 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), Rating : 30V DC / 2A, 250V AC / 0.25A
Connections	Remote Notification	Notification Via E-mail
	Ethernet	1 RJ45 10/100/1000 Base-T
	Serial Interface	RS-485 (Full duplex) for PTZ, Samsung system keyboard
	USB	2 ports (Front)
	Application Support	Mouse, IR Remocon
Coax Protocol	RS-485 Protocol	Samsung-T/E, Pelco-D/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	100 ~ 240V AC ±10%, 50/60 Hz
	Power Consumption	Max. 18W (1 x 1T HDD)
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	370.0 x 44.0 x 320mm (14.57" x 1.73" x 12.60")
	Weight (With hard disks)	Approx. 2.84kg (6.26 lb)
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
	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

\* The latest product information / specification can be found at [hanwha-security.com](http://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.