

# HRD-841

16CH 4M Analog HD DVR

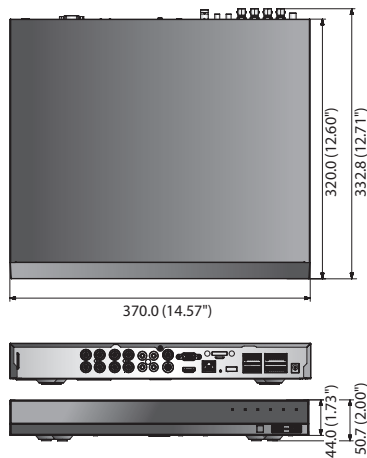


## Key Features

- 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
- 4CH audio input / 1CH audio output
- Up to 2 internal HDDs (Max. 12TB)
- Coaxial cable (Pelco-C, ACP)
- Smartphone support

## Dimensions

Unit : mm (inch)



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| 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<br>NTSC : Up to 240fps@1920 x 1080 / PAL : Up to 200fps@1920 x 1080<br>NTSC : Up to 240fps@1280 x 720, 928 x 480, 704 x 480, 704 x 240, 352 x 240<br>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<br>(※ All Search Included Preview Function)   |
|                   | Playback Function           | Fast forward / Backward (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with I-frame only<br>Slow forward / Backward (1/2x, 1/4x, 1/8x)<br>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)<br>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                | Up to 2 SATA HDDs (0 ~ 6TB HDD)   |
| Storage           | External (e-SATA Interface) | e-SATA, 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             | 4CH line in / 1CH line out  |
|                   | Compression                 | G.711   |
|                   | Sampling Rate               | 8KHz  |
| Alarm             | Inputs / Output             | Terminal 8 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC),<br>Rating : 30V DC/2A, 250V AC/0.25A  |
|                   | 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                      | 1 External SATA port  |
|                   | Application Support         | Mouse, IR remocon   |
| Connections       | 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. 23W (1 x 3THDD)  |
| 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 320.0mm (14.57" x 1.73" x 12.6")   |
|                   | Weight (With hard disks)    | Approx. 2.91kg (6.42 lb) (with 3TB HDDs)  |
| 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 [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.