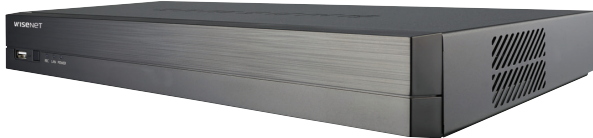


HRD-440

4CH 4M Analog HD DVR

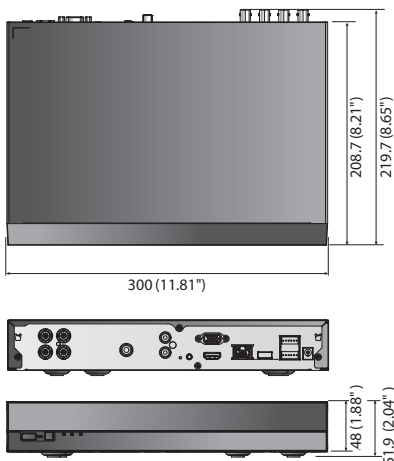


Key Features

- 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) |
| Smart Phone | Protocol Support | TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP |
| | Monitoring | SSM, Webviewer, SmartViewer, iPOLIS mobile viewer |
| | Platform | Android, iOS |
| Storage | Protocol Support | RTP, RTSP, HTTP |
| | Control | Live (8ch) : Multi-Profile Support Playback (1ch) |
| | Max. Remote Users | Search (3), Live Unicast (10), Multicast (20) |
| Security | 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 |
| INTERFACE | Password Protection | 1 Admin, 10 group, 10 User per 1 group |
| | Data Authentication | Watermark |
| 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) |
| Connections | Remote Notification | Notification Via e-mail |
| | 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 |
| GENERAL | Coax Protocol | NTSC / PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax Protocol) |
| 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 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.