# SRD-1685

16CH 1080p Analog HD DVR

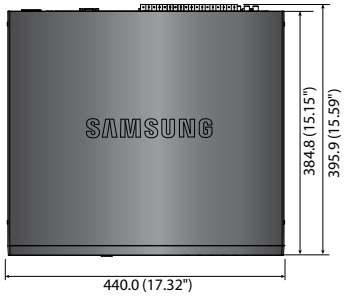


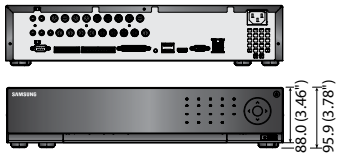
## Key Features

- 16CH 1080p DVR
- Up to 480/400(720p)fps recording rate
- HDMI / VGA video output
- 16CH audio inputs / 1CH audio output
- Max. 4 Internal HDDs
- Coaxial Cable (Pelco-C, ACP)
- Smart phone support (Android / iOS)
- Enhanced Network bandwidth up to 64Mbps

## Dimensions

Unit : mm (inch)




| | | SRD-1685 |
|---|---|---|
| **DISPLAY** | | |
| Video | Inputs | 16CH BNC, 1080p / 720p AHD camera, NTSC / PAL |
| | Resolution | 1920 x 1080, 1280 x 720<br>NTSC : 960 x 480 / 704 x 480, PAL : 960 x 576 / 704 x 576 |
| Live | Frame Rate | NTSC : 480fps / PAL : 400fps |
| | Resolution | 1920 x 1080, 1280 x 720<br>NTSC : 960 x 480 / 704 x 480, PAL : 960 x 576 / 704 x 576 |
| | Multi Screen Display | 1 / 4 / 7 / 9 / 13 / 16 / 16A / Sequence / PIP |
| **PERFORMANCE** | | |
| Operating System | Embedded | Linux |
| Recording | Compression | H.264 |
| | Record Rate | Up to 192fps@1920 x 1080 / Up to 192fps@1920 x 1080<br>Up to 480fps@1280 x 720 / Up to 400fps@1280 x 720<br>NTSC : Up to 480fps@928 x 480 / PAL : Up to 400fps@928 x 576<br>NTSC : Up to 480fps@704 x 480 / PAL : Up to 400fps@704 x 576<br>NTSC : Up to 480fps@704 x 240 / PAL : Up to 400fps@704 x 288<br>NTSC : Up to 480fps@352 x 240 / PAL : Up to 400fps@352 x 288 |
| | Mode | NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1~30fps)<br>PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 ~ 25fps) |
| | Event | Video loss, Motion (Level 1 ~ 10), Alarm, Tampering (Level - Low, Medium, High) |
| | Overwrite Modes | Continuous |
| | Pre-Alarm | Up to 30sec (5, 10, 20, 30sec) |
| | Post-Alarm | Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour) |
| Search & Playback | Search Mode | Date/Time, Event, Backup, POS (SD signal only), Motion<br>(*All search include 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 (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with i-frame only |
| Network (IPv4) | Transmission Speed | Record stream : 1M ~ 2M (NTSC : 192fps, PAL : 192fps), 4CIF (NTSC : 480fps, PAL : 400fps)<br>Network stream : 4CIF / 2CIF / CIF (NTSC : 120 / 240 / 480fps, PAL : 100 / 200 / 400fps) |
| | 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 | SmartViewer, Web Viewer, SSM (CMS), Wisenet Mobile viewer,<br>iPOLiS Mobile viewer |
| Storage | Internal HDD | Up to 4 SATA HDDs |
| | External (e-SATA Interface) | 2 ports |
| | USB (Backup) | USB 2.0, 2 ports (Front 1, Back 1) |
| | 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 (1280 x 720, 1280 x 1024, 1920 x 1080) |
| | HDMI | 1 HDMI (1280 x 720, 1280 x 1024, 1920 x 1080) |
| | Spot Composite | Digital spot (1CH) *Incldued OSD on screen, Multi mode Support |
| Audio | Inputs / Output | 16CH Line in (Built-in 4CH, Option : Audio extension cable) / 1CH Line out |
| | Compression | G.711 |
| | Sampling Rate | 8KHz |
| Alarm | Inputs / Output | Terminal 16 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 RJ-45 10/100/1000 BASE-T |
| | Serial Interface | RS-232/RS-485 (Full duplex) for PTZ, Samsung system keyboard |
| | USB | USB 2.0, 2 ports |
| | Application Support | Mouse, Remote Controller |
| | RS-485 Protocol | Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD,<br>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%, 50/60Hz, Auto ranging |
| | Power Consumption | Max. 30W (1 x 1T HDD) |
| Environmental | Operating Temperature | +0°C ~ +40°C (+32°F ~ +104°F) |
| | Operating Humidity | 20% ~ 85% RH |
| Mechanical | Dimensions (WxHxD) | 440.0 x 88.0 x 384.8mm (17.32" x 3.46" x 15.15") |
| | Weight (With hard disks) | Approx. 5.1Kg (11.24 lb) |
| Language | | 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) |

* The lastest product information / specification can be found at hanwha-security.com
* Design and specifications are subject to change without notice.

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