

**SAMSUNG**

# High Definition & Easy Graphical User Interface

16Ch/8Ch H.264 Real-time DVR



## 16CH/8CH H.264 Digital Video Recorder SRD-1650/850DC

- 16ch real-time DVR
- Video (H.264) / Audio (ADPCM)
- Up to 480 (NTSC) / 400 (PAL)ips recording rate
- Up to 16ch audio inputs and 1ch audio outputs
- Combined BNC and VGA/HDMI video output for main display
- SRD-1650 : Max 6 internal HDD (HDD x 6)  
SRD-1650D : Max 5 internal HDD (HDD x 5)
- HDD & DVD SATA interface , DDNS
- Built-in web viewer, DVD-RW (SRD-1650D)
- PTZ control via Coaxial cable (SRD-1650DC)

# 16CH H.264 Digital Video Recorder

## SRD-1650DC



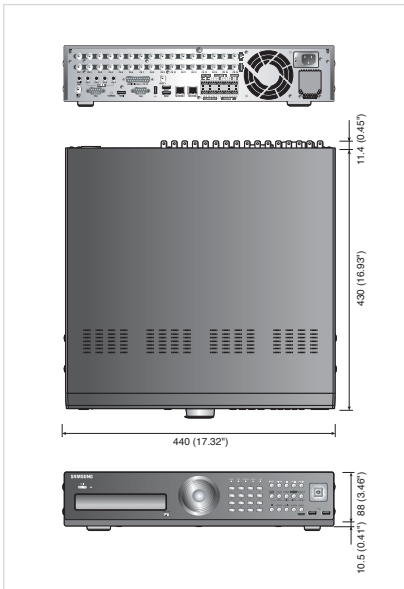
### Specifications

SRD-1650DC

| DISPLAY           |                                  |   |
|-------------------|----------------------------------|---|
| Video             | Inputs                           | 16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination   |
|                   | Resolution                       | NTSC : 704 x 480 / PAL : 704 x 576  |
| Live              | Frame Rate                       | NTSC : 480fps / PAL : 400fps  |
|                   | Resolution                       | NTSC : 704 x 480 / PAL : 704 x 576  |
|                   | Multi Screen Display             | 1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP   |
| PERFORMANCE       |                                  |   |
| Operating System  | Embedded                         | Linux   |
|                   | Compression                      | H.264   |
| Recording         | Record Rate                      | NTSC : Up to 120fps@704 x 480 / PAL : Up to 100fps@704 x 576<br>NTSC : Up to 240fps@704 x 240 / PAL : Up to 200fps@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 (0.9 / 1.9 / 3.8 / 7.5 / 15 / 30fps)<br>PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5 / 25fps) |
|                   | Overwrite Modes                  | Continuous  |
|                   | Pre-alarm                        | Up to 30sec (5, 10, 20, 30sec)  |
| Search & Playback | Post-alarm                       | Up to 6hour (5, 10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)  |
|                   | Search Mode                      | Date/Time, Event, Back up, Pos, Motion (*All search include preview function)   |
|                   | Playback Function                | Fast forward / backward, Slow forward / backward, Step forward / backward   |
| Network           | Transmission Speed               | CIF 480/400fps  |
|                   | Bandwidth                        | Up to 8Mbps, Unlimited (8M) / 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps  |
|                   | Bandwidth Control                | Selectable  |
|                   | Stream                           | H.264 (4CIF / 2CIF / CIF selectable)  |
|                   | Max. Remote Users                | Search 3 / Live unicast 10 / Live multicast 20  |
|                   | Protocol Support                 | TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP   |
|                   | Monitoring                       | NET-i viewer, SmartViewer, Webviewer  |
| Smart Phone       | Smart Phone                      | Android, i-Phone  |
|                   | Protocol Support                 | RTSP/RTP (UDP), CGI, HTTP   |
|                   | Transmission Speed               | Wi-Fi : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)<br>3G : CIF Max. 4fps (Single channel) / CIF Max. 4fps (Quad channel)   |
| Storage           | Max. Remote Users                | Live 1  |
|                   | Internal HDD                     | Up to 5 SATA HDDs   |
|                   | External HDD                     | Up to 2 expansion bay (Up to 4 HDD each)  |
|                   | DVD Writer (Back up)             | Yes   |
|                   | USB (Back up)                    | 3 USB ports   |
| Security          | File Format (Back up)            | AVI, BU (DVR player), EXE (Include player)  |
|                   | Password Protection              | 1 Admin, 10 Group, 20 User per 1 group. User can be assigned authority for function   |
|                   | Data Authentication              | Watermark   |
| INTERFACE         |                                  |   |
| Monitors          | VGA                              | 1 VGA (800 x 600, 1024 x 768, 1280 x 1024)  |
|                   | HDMI                             | 480p / 720p / 1080p resolution  |
|                   | Main Composite                   | 1 BNC, 1 Vp-p, 75 ohm   |
|                   | Spot Composite                   | Digital spot (1 BNC, 1 Vp-p, 75 ohm), support multi screen and camera title   |
| Audio             | Loop Outputs                     | 16  |
|                   | Inputs / Output                  | 16CH line in (Built-in 4CH, option : audio extension cable) / 1CH line out  |
|                   | Compression                      | ADPCM   |
| Alarm             | Sampling Rate                    | 16KHz   |
|                   | Inputs / Output                  | Terminal 16 inputs (NO/NC) / Terminal 4 relay outputs (NO/NC),<br>Rating : 30V DC / 2A, 125V AC / 0.5A  |
|                   | Remote Notification              | Notification via e-mail   |
|                   | Ethernet                         | 1 RJ-45 10/100/1000 Base-T  |
| Connections       | Serial Interface                 | RS-232/RS-485 for PTZ, Samsung system keyboard  |
|                   | USB                              | USB 2.0, 3 ports  |
|                   | eSATA                            | 2 External SATA ports   |
|                   | Application Support              | Mouse, Remote controller  |
|                   | Protocol Support                 | Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, Vicon<br>PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]   |
| GENERAL           |                                  |   |
| Electrical        | Input Voltage / Current          | 100 ~ 240V AC $\pm$ 10%, 50/60Hz, Autoranging   |
|                   | Power Consumption                | Max. 60W (With 1x HDD)  |
| Environmental     | Operating Temperature / Humidity | +0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 85% RH  |
|                   | Dimensions (WxHxD)               | 440.0 x 88.0 x 426.8mm (17.32" x 3.46" x 16.80")  |
| Mechanical        | Weight (With hard disks)         | Approx. 7.5Kg (16.53 lb)  |
|                   | Rack Mount Kit                   | 2ea   |
| Language          |                                  | Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumanian, Serbian, Croatian, Hungarian, Greek (22 Language)               |

### Dimensions

Unit : mm (inch)



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