



# Enhanced functionalities, with **Full HD** video out



## SRD-1654D

### 16CH CIF Real-time H.264 Digital Video Recorder

- 16CH, Real-time@CIF
- Max. resolution of 960 x 480 / 960 x 576
- Touch interface front panel
- Smart phone support (Android / iOS)
- Full HD 1080p video out via HDMI
- 4CH audio inputs / 1CH audio output
- Max. 4 internal HDDs
- Smart searching
- Enhanced Network Bandwidth up to 32Mbps

The SRD-1654D is digital video recorder, Full HD 1080p HDMI video out, support for 700TV lines analog cameras, and a sleek touch sensitive front panel, while retaining the familiar and easy to use graphical interface, smartphone support, and E-mail alerts. This supports recording and playback up to 928 x 480 resolution. Network bandwidth has also been increased for robust remote viewing at high resolutions.

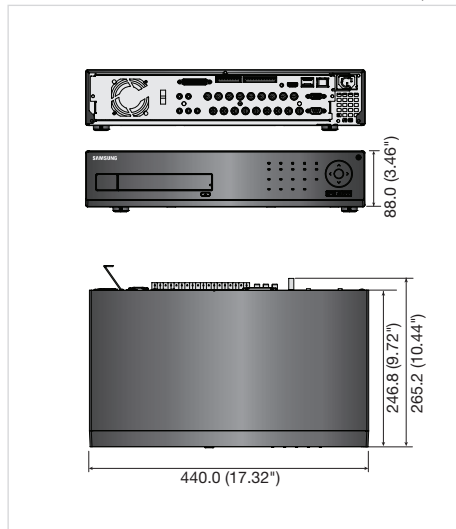


## Specifications

|                    |                                  | SRD-1654D                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISPLAY</b>     |                                  |                                                                                                                                                                                                                                                              |
| Video              | Inputs                           | 16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination                                                                                                                                                                                                  |
|                    | Resolution                       | NTSC : 960 x 480, 720 x 480 / PAL : 960 x 576, 720 x 576                                                                                                                                                                                                     |
|                    | Frame Rate                       | NTSC : 480fps / PAL : 400fps                                                                                                                                                                                                                                 |
| Live               | Resolution                       | NTSC : 928 x 480, 704 x 480 / PAL : 928 x 576, 704 x 576                                                                                                                                                                                                     |
|                    | Multi Screen Display             | 1 / 4 / 7 / 9 / 13 / 16 / 16A / Sequence / PIP                                                                                                                                                                                                               |
| <b>PERFORMANCE</b> |                                  |                                                                                                                                                                                                                                                              |
| Operating System   | Embedded                         | Linux                                                                                                                                                                                                                                                        |
|                    | Compression                      | H.264                                                                                                                                                                                                                                                        |
| Recording          | Record Rate                      | NTSC : Up to 120fps@928 x 480 / PAL : Up to 100fps@928 x 576<br>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 (1~30fps)<br>PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 ~ 25fps)                                                                            |
|                    | Event                            | Video loss, Motion (Level 1 ~ 10), Alarm                                                                                                                                                                                                                     |
|                    | 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, Back up, POS, Motion (*All search include preview function)<br>Playback Function: Fast forward / backward, Slow forward / backward, Step forward / backward                                                                   |
| Network            | Transmission Speed               | 4CIF / 2CIF / CIF (NTSC : 120 / 240 / 480fps, PAL : 100 / 200 / 400fps)                                                                                                                                                                                      |
|                    | Bandwidth                        | Up to 32Mbps                                                                                                                                                                                                                                                 |
|                    | Bandwidth Control                | Selectable                                                                                                                                                                                                                                                   |
|                    | Stream                           | H.264 (4CIF / 2CIF / CIF selectable)                                                                                                                                                                                                                         |
| Smart Phone        | 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                       | NET-i viewer, SmartViewer, Webviewer                                                                                                                                                                                                                         |
|                    | Platform                         | Android, iOS                                                                                                                                                                                                                                                 |
| Storage            | Protocol Support                 | RTP, RTSP, HTTP, CGI                                                                                                                                                                                                                                         |
|                    | Max. Remote Users                | Live 1                                                                                                                                                                                                                                                       |
|                    | Internal HDD                     | Up to 4 SATA HDDs                                                                                                                                                                                                                                            |
|                    | DVD Writer (Back up)             | Yes                                                                                                                                                                                                                                                          |
| Security           | USB (Back up)                    | 2 USB ports                                                                                                                                                                                                                                                  |
|                    | File Format (Back up)            | BU (DVR player), EXE (Include player), AVI                                                                                                                                                                                                                   |
|                    | Password Protection              | 1 Admin, 10 Group, 10 User per 1 group                                                                                                                                                                                                                       |
| INTERFACE          | Data Authentication              | Watermark                                                                                                                                                                                                                                                    |
|                    |                                  |                                                                                                                                                                                                                                                              |
| 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 (2 BNC, 1 Vp-p, 75 ohm) *Included OSD on screen                                                                                                                                                                                                 |
| Audio              | Inputs / Output                  | 4CH line in / 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 for PTZ, Samsung system keyboard                                                                                                                                                                                                               |
|                    | USB                              | USB 2.0, 2 ports                                                                                                                                                                                                                                             |
|                    | Application Support              | Mouse, Remote controller                                                                                                                                                                                                                                     |
|                    | Protocol Support                 | Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE                                                                                                                                                             |
| <b>GENERAL</b>     |                                  |                                                                                                                                                                                                                                                              |
| 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 246.8mm (17.32" x 3.46" x 9.72")                                                                                                                                                                                                              |
| Mechanical         | Weight (With hard disks)         | Approx. 5.2Kg (11.46 lb)                                                                                                                                                                                                                                     |
|                    | Rack Mount Kit                   | 2ea                                                                                                                                                                                                                                                          |
| Language           |                                  | Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumania, Serbia, Croatia, Hungary, Greek, Taiwan (23 Language)                                 |

## Dimensions

Unit : mm (inch)



The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Design and specifications are subject to change without notice.

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