

# Professional Economy

## Compact 4Ch H.264 DVR



4CH H.264 Digital Video Recorder

# SRD-450



Although the SRD-450 is compact in size, it delivers all the core features required for today's professional security applications. As well as the ability to record real-time images across all four channels at CIF resolution, the SRD-450 also affords the user the opportunity to record in resolutions up to 4-CIF over selected channels. With 500GB on-board storage as standard (upgradable to 1TB) and with a built-in USB slot for quick and easy video back-up, the SRD-450 features high level H.264 compression to ensure superb picture quality whilst minimising hard drive space and bandwidth requirements. The SRD-450 is the ideal recording solution for users looking to match economy with professional performance and it is suitable for applications such as monitoring small offices and retail outlets.

- Up to 120 (NTSC) / 100 (PAL)fps recording rate at CIF resolution
- Full 4CIF resolution recording support
- Up to 4ch audio inputs and 1ch audio outputs
- Video (H.264) / Audio (G.711)

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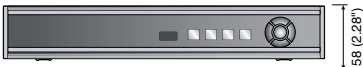
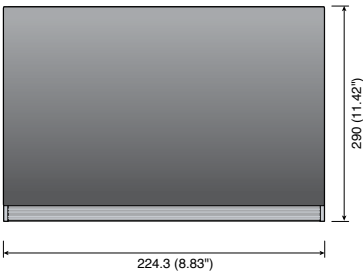


## Specifications

|                    |                                | SRD-450                                                                                                                                                                                                               |
|--------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISPLAY</b>     |                                |                                                                                                                                                                                                                       |
| Video              | Inputs                         | 4 composite video 0.5~1 Vpp, 75 ohm                                                                                                                                                                                   |
|                    | Resolution                     | 704 x 480 NTSC, 704 x 576 PAL                                                                                                                                                                                         |
|                    | Frame Rate                     | 120fps NTSC, 100fps PAL                                                                                                                                                                                               |
| Live               | Resolution                     | 704 x 480 NTSC, 704 x 576 PAL                                                                                                                                                                                         |
|                    | Multi Screen Display           | 1/4/SEQUENCE                                                                                                                                                                                                          |
| <b>PERFORMANCE</b> |                                |                                                                                                                                                                                                                       |
| Operating System   | Embedded                       | Linux                                                                                                                                                                                                                 |
|                    | Compression                    | H.264                                                                                                                                                                                                                 |
| Recording          | Record Rate                    | NTSC : Up to 30fps@704 x 480 / PAL : Up to 25fps@704 x 576<br>NTSC : Up to 60fps@704 x 240 / PAL : Up to 50fps@704 x 288<br>NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288                              |
|                    | Mode                           | NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 / 2 / 3 / 7 / 15 / 30fps)<br>PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 / 2 / 3 / 7 / 13 / 25fps) |
|                    | Overwrite Modes                | Continuous                                                                                                                                                                                                            |
|                    | Pre-alarm                      | Up to 5 sec.(1, 2, 3, 4, 5 sec)                                                                                                                                                                                       |
| Search & Playback  | Post-alarm                     | Up to 180 sec (5, 10, 15, 20, 30, 60, 120, 180)                                                                                                                                                                       |
|                    | Search Mode                    | Date/time, Event                                                                                                                                                                                                      |
|                    | Playback Function              | Fast forward / Backward (x2, x4, x8, 16, x32, x64) , Step Forward/Backward (x2, x4,x8,16,x32,x64)                                                                                                                     |
|                    | Transmission Speed             | Up to (8)Mbps, Unlimited (8M) / 4 / 2 / 1 Mbps / 512 / 256 / 128 / 56 kbps                                                                                                                                            |
| Network            | Bandwidth Control              | Automatic                                                                                                                                                                                                             |
|                    | Multi Stream                   | N/A                                                                                                                                                                                                                   |
|                    | Max. Remote Users              | Live(4) / Backup(4) / Search(4)                                                                                                                                                                                       |
|                    | Protocol Support               | TCP/IP, DHCP, DDNS, RTSP, NTP, HTTP                                                                                                                                                                                   |
| Smart phone        | Monitoring                     | Webviewer, Smart phone (App type, Only live, 5fps /sec, iPhone (Wifi), Android (3G) * Audio not support                                                                                                               |
|                    | Smart Phone                    | Android, I-phone                                                                                                                                                                                                      |
|                    | Protocol support               | RTSP,HTTP                                                                                                                                                                                                             |
|                    | Transmission speed             | CIF Max 14fps(Single Channel)/ CIF Max 3.5fps(Quad Channel)                                                                                                                                                           |
| Storage            | Remote users Maximum           | Live(1)                                                                                                                                                                                                               |
|                    | Internal HDD                   | Up to 1 SATA HDD (Basic 500G, Up to 1T)                                                                                                                                                                               |
|                    | External HDD                   | Not Support                                                                                                                                                                                                           |
|                    | DVD Writer (Back up)           | Not Support                                                                                                                                                                                                           |
| Security           | USB (Back up)                  | USB stick memory only (up to 20GB)                                                                                                                                                                                    |
|                    | File Format (Back up)          | AVI                                                                                                                                                                                                                   |
|                    | Password Protection            | 8User (1 Admin, 7 Manager and user, Only english with special character)                                                                                                                                              |
|                    | Data Authentication            | Watermark                                                                                                                                                                                                             |
| <b>INTERFACE</b>   |                                |                                                                                                                                                                                                                       |
| Monitors           | VGA                            | 1024 x 768                                                                                                                                                                                                            |
|                    | HDMI                           | Not support                                                                                                                                                                                                           |
|                    | Main Composite                 | 1BNC, 1 Vp-p, 75 ohm                                                                                                                                                                                                  |
|                    | Spot Composite                 | Not support                                                                                                                                                                                                           |
| Audio              | Loop Outputs                   | Not support                                                                                                                                                                                                           |
|                    | Inputs/Output                  | 4 line in / 1 line out                                                                                                                                                                                                |
|                    | Compression                    | G.711                                                                                                                                                                                                                 |
|                    | Sampling rate                  | 64KHz                                                                                                                                                                                                                 |
| Alarm              | Inputs / Outputs               | 4CH, Pulled up to 5V via 10K Ohm / 1CH, Relay                                                                                                                                                                         |
|                    | Remote notification            | Notification via e-mail (With 1CH snapshot JPEG image attached)                                                                                                                                                       |
|                    | Ethernet                       | 1 RJ45 10/100 Base-T                                                                                                                                                                                                  |
|                    | Serial interface               | Not support                                                                                                                                                                                                           |
| Connections        | USB                            | USB 2.0, 2 ports                                                                                                                                                                                                      |
|                    | e-SATA                         | Not support                                                                                                                                                                                                           |
|                    | Application Suport             | Mouse, Remote controller                                                                                                                                                                                              |
|                    | Protocol support               | Upgrade - USB stick memory                                                                                                                                                                                            |
| <b>GENERAL</b>     |                                |                                                                                                                                                                                                                       |
| Electrical         | Input Voltage/Current          | DC12V adaptor, 3.3A, 100 ~ 220VAC, 50 ~ 60Hz                                                                                                                                                                          |
|                    | Power consumption              | TYP : 16.8W, MAX : 25.2W                                                                                                                                                                                              |
| Environmental      | Operating Temperature/Humidity | +0°C to +40°C (+32°F to +104°F) / 20%RH to 85%RH                                                                                                                                                                      |
|                    | Dimension (W x H x D)          | 290 x 224.3 x 58mm (11.42" x 8.83" x 2.28")                                                                                                                                                                           |
| Mechanical         | Weight (With hard disks)       | 1.88kg                                                                                                                                                                                                                |
|                    | Rack mount kit                 | Not support                                                                                                                                                                                                           |
| Lauguage           |                                | NTSC : English, French, Spanish<br>PAL : English, French, Spanish, German, Italian, Turkish,Russian, Czech, Swedish                                                                                                   |

## 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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