SAMSUNG **SAMSUNG TECHWIN**

The Hybrid Analogue Recorder

The SRD-1680D is a HD/SD hybrid digital video recorder that provides 16CH 700TVL and 8CH Full HD 1080p real-time recording. It offers maximum Full HD 1920 x 1080 resolution for NTSC and PAL, and the max frame rate is 480fps (NTSC and 400 for PAL). The SRD-1680D offers various smart video analysis functions : including smart searching, tampering. User can extend the storage by installing up to 4 HDDs and using DVD-RW and USB for back up. Network throughput is up to 64Mbps.

SRD-1680D

8/16CH HD-SDI Hybrid Digital Video Recorder

- 16CH 700TV lines / 8CH Full HD 1080p real-time recording
- Full HD video out, VGA/HDMI video output for main display
- Max. 4 internal HDDs
- HDD removable (Easy install)
- Smart searching, Tampering support
- DVD-RW, Smart phone support
- PTZ Control via Coaxial Cable
  [Samsung CCVC, Pelco-C (Coaxitron)]
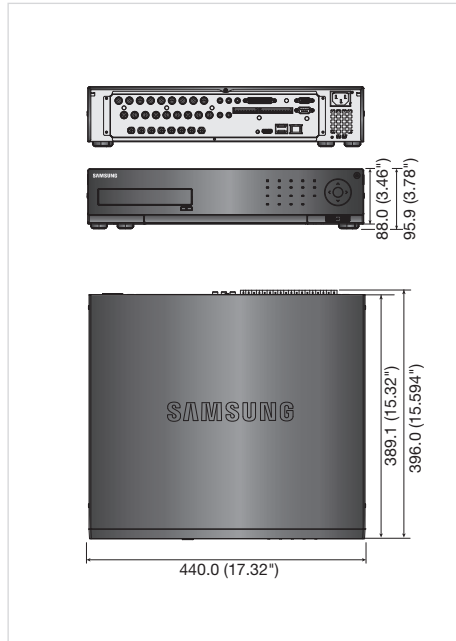- Up to 64Mbps network bandwidth

16CH | **H.264** | **480fps(N) 400fps(P)** | **CMS** | **Smart Phone**

Specifications

		SRD-1680D
DISPLAY		
Video	Inputs	8 HD-SDI SMPTE292M,16 Composite video 0.5-1 Vp-p, 75 ohm automatic termination
	Resolution	NTSC : 1920 x 1080, 1280 x 720, 960 x 480, 704 x 480 / PAL : 1920 x 1080, 1280 x 720, 960 x 576, 704 x 576
Live	Frame Rate	NTSC : 480fps / PAL : 400fps
	Resolution	NTSC : 1920 x 1080, 1280 x 720, 960 x 480, 704 x 480 / PAL : 1920 x 1080, 1280 x 720, 960 x 576, 704 x 576
	Multi Screen Display	1 / 4 / 7 / 13 / 16 / 16A / Sequence / PIP
PERFORMANCE		
Operating System	Embedded	Linux
	Compression	H.264
Recording	Record Rate	NTSC : Up to 240fps@1920 x 1080 / PAL : Up to 200fps@1920 x 1080 NTSC : Up to 240fps@1280 x 720 / PAL : Up to 200fps@1280x720 NTSC : Up to 480fps@960 x 480 / PAL : Up to 400fps@960 x 576 NTSC : Up to 480fps@704 x 480 / PAL : Up to 400fps@704 x 576 NTSC : Up to 480fps@704 x 240 / PAL : Up to 400fps@704 x 288 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 (1~30 fps) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (1 ~ 25fps)
	Event	Video loss, Motion (Level 1 ~ 10), Alarm, Tampering (Level 1~3)
	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)
	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 (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with i-frame only
Network	Transmission Speed	Option 1) 1M ~ 2M (NTSC : 240fps, PAL : 200fps, 4CIF (NTSC : 480fps, PAL : 400fps) Option 2) 4CIF / 2CIF / CIF (NTSC : 120 / 240 / 480fps, PAL : 100 / 200 / 400fps)
	Bandwidth	Up to 64Mbps
	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, SNMP
	Monitoring	NET-i viewer, SmartViewer, Webviewer
Smart Phone	Platform	Android, iOS
	Protocol Support	RTP, RTSP, HTTP, CGI
	Max. Remote Users	Live 1, Play back 1CH
Storage	Internal HDD	Up to 4 SATA HDDs
	External (e-SATA Interface)	Up to 2 expansion bay (*Model : SVS-5R/5E)
	DVD Writer (Back up)	Yes
	USB (Back up)	2 USB ports
	File Format (Back up)	BU (DVR player), EXE (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 (2CH) *Inclduded OSD on screen, multi mode support (1CH)
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), 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 (Front)
	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, ELMO, GE PTZ control via coaxial cable [Samsung CCVC, Pelco-C (Coaxitron)]
GENERAL		
Electrical	Input Voltage / Current	100 ~ 240V AC ±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
Mechanical	Dimensions (WxHxD)	440.0 x 88.0 x 389.1mm (17.32" x 3.46" x 15.32")
	Weight (With hard disks)	Approx. 5.2Kg (11.46 lb)
	Rack Mount Kit	2ea
Language		Korean, Japanese, Chinese (Traditional), English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thai, Romanian, Serbian, Croatian, Hungarian, Greek, Finnish, Norwegian, Taiwanese (25 Language)

Dimensions

Unit : mm (inch)

88.0 (3.46")
95.9 (3.78")
389.1 (15.32")
396.0 (15.594")
440.0 (17.32")

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

eco RoHS compliant

Design and specifications are subject to change without notice.