

# SRD-1685

16CH 1080p Analog HD DVR

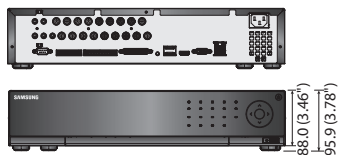
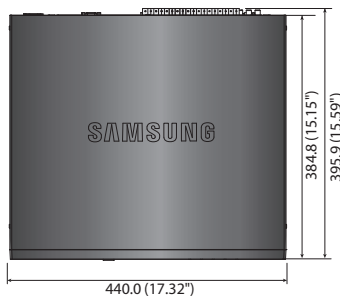


## Key Features

- 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		
<b>DISPLAY</b>		
Video	Inputs	16CH BNC, 1080p / 720p AHD camera, NTSC/PAL
	Resolution	NTSC : 1920 x 1080, 1280 x 720, 960 x 480, 704 x 480 PAL : 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 : 960 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	Up to 192fps@1920 x 1080 / Up to 192fps@1920 x 1080 Up to 480fps@1280 x 720 / Up to 400fps@1280 x 720 NTSC : Up to 480fps@928 x 480 / PAL : Up to 400fps@928 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 ~ 30fps) 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 (*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 (IPv4)	Transmission Speed	Record stream : 1M ~ 2M (NTSC : 192fps, PAL : 192fps), 4CIF (NTSC : 480fps, PAL : 400fps) 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
Smart Phone	Monitoring	SmartViewer, Webviewer, SSM (CMS)
	Platform	Android, iOS
	Protocol Support	RTP, RTSP, HTTP, CGI
Storage	Max. Remote Users	Live 4, Search 1CH
	Internal HDD	Up to 4 SATA HDDs
	External (e-SATA Interface)	2 ports
	USB (Backup)	USB 2.0, 2 ports (Front 1, Back 1)
Security	File Format (Backup)	BU (DVR player), SEC (Include player), AVI
	Password Protection	1 Admin, 10 Group, 10 User per 1 group
	Data Authentication	Watermark
<b>INTERFACE</b>		
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) *Included 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), Rating : 30V DC / 2A, 250V AC / 0.25A
	Remote Notification	Notification via e-mail
	Ethernet	1 RJ-45 10/100/1000 Base-T
Connections	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, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO, GE
	Coax Protocol	NTSC/PAL : Pelco-C (Coaxitron), AHD : ACP (AHD Coax Protocol)
<b>GENERAL</b>		
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 latest product information / sepecification can be found at <http://security.hanwhatechwin.com>