



# High Definition & Easy Graphical User Interface

16Ch H.264 Real-time DVR



16CH H.264 Digital Video Recorder

## SRD-1650/1650D/1650DC



- 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)

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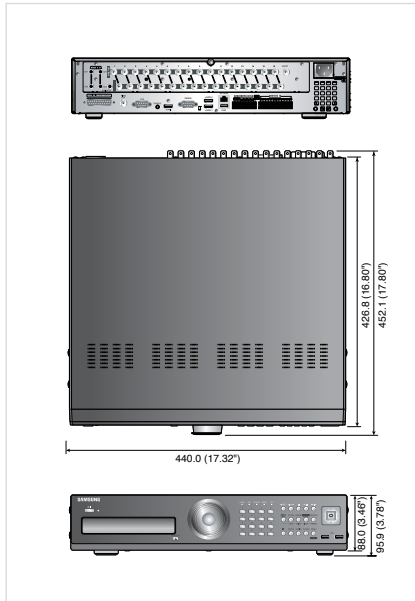


## Specifications

		SRD-1650	SRD-1650D	SRD-1650DC
<b>DISPLAY</b>				
Video	Inputs	16 Composite video 0.5-1 Vpp, 75 ohm automatic termination		
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576		
	Frame Rate	NTSC : 480ips / PAL : 400ips		
Live	Resolution	NTSC : 704 x 480 / PAL : 704 x 576		
	Multi Screen Display	1 / 4 / 6 / 8 / 9 / 13 / 16 / PIP		
<b>PERFORMANCE</b>				
Operating System	Embedded	Linux		
	Compression	H.264		
Recording	Record Rate	NTSC : Up to 120ips@704 x 480 / PAL : Up to 100ips@704 x 576		
		NTSC : Up to 240ips@704 x 240 / PAL : Up to 200ips@704 x 288		
		NTSC : Up to 480ips@352 x 240 / PAL : Up to 400ips@352 x 288		
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.9 / 1.9 / 3.8 / 7.5 / 15ips) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post), Time lapse (0.8 / 1.6 / 3.1 / 6.2 / 12.5ips)		
Search & Playback	Overwrite Modes	Continuous		
	Pre-alarm	Up to 30sec. (5, 10, 20, 30sec.)		
	Post-alarm	Up to 6hour. (5, 10, 20, 30 sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)		
Search & Playback	Search Mode	Date/Time, Event, Back up, Pos, Motion (*All searching mode include preview function)		
	Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward		
Network	Transmission Speed	Up to 15 Mbps, Unlimited (4M) / 2 / 1.5 / 1 Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50 kbps		
	Bandwidth Control	Automatic		
	Multi Stream	H.264 (4CIF / 2CIF / CIF)		
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20		
Storage	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP		
	Monitoring	Net-i viewer, Smart viewer, Web viewer		
	Internal HDD	Up to 6 SATA HDDs	Up to 5 SATA HDDs	
	External HDD	Up to 2 expansion bay (up to 4 HDD each)		
Storage	DVD Writer (Back up)	N/A	Yes	
	USB (Back up)	3 USB ports		
	File Format (Back up)	AVI, MDB (DVR play back), EXE (Include player)		
Security	Password Protection	1 Admin, 10 Group, 20 User per 1 Group, User can be assigned authority for function		
	Data Authentication	Watermark		
<b>INTERFACE</b>				
Monitors	VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution		
	HDMI	480p / 720p / 1080p resolution		
	Main Composite	BNC, 1 Vp-p, 75 ohm		
Audio	Spot Composite	1 BNC, 1 Vp-p, 75 ohm, Support multi screen and camera title		
	Loop Outputs	16		
	Inputs	16 Line in (Built in 4ch, Option : audio extension cable)		
	Output	1 Line		
Alarm	Compression	ADPCM		
	Sampling Rate	16KHz		
	Inputs	Terminal 16 inputs, NO/NC		
Connections	Outputs	Terminal 4 relay outputs, NO/NC		
	Remote Notification	Notification via e-mail		
	Ethernet	1 RJ-45 10/100/1000 Base -T		
	Serial Interface	RS-232		
General	PTZ Control Interface	RS-485		
	PTZ Keyboard	RS-485		
	USB	USB 2.0, 3 ports		
	eSATA	2 External SATA ports		
Application Support	Application Support	Mouse, Remote controller		
	Protocol support	Samsung-E/ Samsung-T/ Pelco-D/ Pelco-p/Panasonic/ Phillips/ AD/ DIAMOND/ ERNA/ KALATEL/ VCL TP/VICON * SRD-1650DC : PTZ Control via Coaxial Cable (Samsung CCVC, Coaxtron)		
<b>GENERAL</b>				
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging		
	Power Consumption	Max. 55W (With 1x HDD) / Max. 65W (With 4x HDD)		
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)		
	Operating Humidity	20% ~ 85%RH		
Mechanical	Dimensions (WxHxD)	440 x 88 x 430mm (17.32" x 3.46" x 16.93")		
	Weight (2x Hard Disks)	Approx. 7.5kg (16.53 lb)		
Language	Rack Mount Kit	2ea		
	Language	Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thai, Rumanian, Serbian, Croatian, Hungarian, Greek (22 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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