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H.264
Visual Evolution

Premium Digital Video Recorder **SVR-1670/490**

- H.264 high performance image compression
- Real-time High resolution recording
- H.264/JPEG multi-stream for high network performance
- Centralized management software supplied as standard
- Easy-installation with coaxial control(Optional)

REVISED 11-2009

SVR-1670

SVR-490
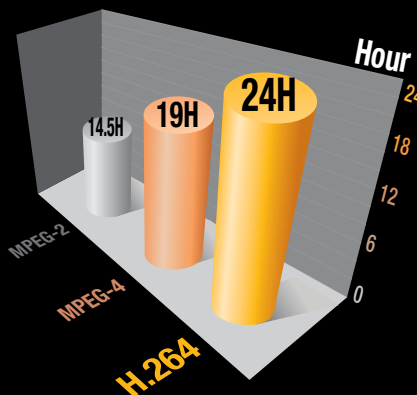
H.264 DVR
Recording System

H.264 High Resolution Technology

H.264

H.264 is the latest generation standard for video compression, the process of converting digital video into a format that takes up less capacity when it is stored or transmitted. Compared with standards such as MPEG-2 and MPEG-4 Visual, H.264 can deliver better image quality at the same bitrate, and a lower bitrate for the same image quality.

[Recording Time Comparison Chart]

14.5H   19H   24H   **Hour**

24
18
12
6
0

MPEG-2
MPEG-4
H.264

• At the same image size, quality and HDD size.
• Actual recording time will vary depending on the amount of motion and picture detail in the scene.

SVR-1670

SVR-490

Premium Digital Video Recorder

SVR-1670

- H.264 high performance image compression
- 16 channels 480fps(N), 400fps(P) real-time recording
- H.264/JPEG multi-stream for high network performance
- Centralized management software supplied as standard

User Friendly Interface

Easy-to-use and convenient GUI

Pop-up style menu and GUI makes learning how to operate the SVR-1670/SVR-490 very easy, even for a digital equipment novice. The SVR-1670/490 comes with an infrared wireless remote control, and offers simple GUI and a mouse for experienced PC users.

Hot Function Menu

The graphic menu of the SVR-1670/490 has Hot Function icons to aid mouse users and to provide a better working environment.

- PTZ Control & Preset Menus
- Default DVD & Simple USB Backup Capacity

Up to 18 Multiple Languages

The DVR provides multi-language for an easy and convenient user environment.

Real-time 4CIF Resolution Recording

4CIF

SVR-1670/490 has applied a high speed data processing technology for all channel H.264 full-frame compression. It is possible to record and play 4CIF(704 x 480(N), 704x576(P)) level high resolution images. Especially, SVR-490 recording capabilities of 120fps allows up to 4cameras to be simultaneously recorded at full 4CIF resolution and in real-time.

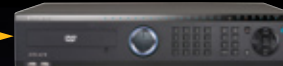CIF (352 x 240, N)   4CIF (704 x 480, N)

Easy-Installation with Coaxial Control

COAX

The SVR-1670/490 supports 16/4 PTZ camera control through coaxial cable. This function allows control signals to be sent over the video coaxial cable, eliminating the need for separate control wiring.

Coaxial Cable
(Video+Camera control)

Slim Digital Video Recorder

SVR-490

- H.264 high performance image compression
- 4 channels 120fps(N), 100fps(P) real-time recording (4CIF)
- H.264/JPEG multi-stream for high network performance
- Centralized management software supplied as standard

SAMSUNG

SVR-490

USB

Outstanding Network Monitoring

Multi-Stream with H.264/JPEG

Built-in H.264 support provides simultaneous viewing of both H.264/JPEG video streams, wide selection of video resolutions, screen qualities, and frame rates for real-time monitoring are available to choose from. It supports the existing TCP connection method as well as RTP/UDP, RSTP, RTP so that streaming data can be received through client programs

Samsung Video Management Software (SVM-S1)

The Samsung Techwin's exclusive CMS, a standard application software provided, can manage not only the SVR-1670/SVR-490(DVR), but a range of Samsung Techwin's network products simultaneously. It allows easy yet systemized operation of a variety of products' functions enabling the monitoring more reliable, faster and more efficient.

Anytime, Anywhere with Convenient Web viewer

The DVR has a built-in web server that enables users to monitor and playback DVR images through the Web viewer regardless of place and time.
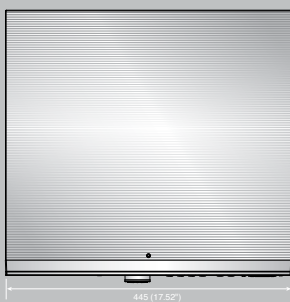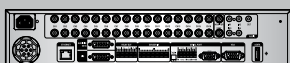
Premium Digital Video Recorder
SVR-1670/490

H.264 | 16CH | 4CH | 480fps(N) 400fps(P) | 120fps(N) 100fps(P) High Resolution | 704x480(N) 704x576(P) | USB DVD | Max.16TB HDD | Max.10TB HDD | CMS | Multi-Stream | Network | Web | Easy Search | 16CH/4CH AUDIO | COAX | GUI | ATM/POS | Remote Control +Mouse

SVR-1670

SVR-490

Specifications

		SVR-1670		SVR-490	
DISPLAY					
Video	Inputs	16 composite video 0.5-2 Vpp, 75 ohm automatic termination		4 composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576	NTSC : 704 x 480	PAL : 704 x 576
Live	Frame Rate	NTSC : 480fps	PAL : 400fps	NTSC : 120fps	PAL : 100fps
	Resolution	NTSC : 704 x 480	PAL : 704 x 576	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4 / 9 / 10 / 16		1 / 4	
PERFORMANCE					
Recording	Compression	H.264		H.264	
	Record Rate	NTSC Up to 120fps@704 x 480 (4CIF) Up to 240fps@704 x 240 (2CIF) Up to 480fps@352 x 240 (CIF)	PAL Up to 100fps@704 x 576 (4CIF) Up to 200fps@704 x 288 (2CIF) Up to 400fps@352 x 288 (CIF)	NTSC Up to 120fps@704 x 480 (4CIF) Up to 120fps@704 x 240 (2CIF) Up to 120fps@352 x 240 (CIF)	PAL Up to 100fps@704 x 576 (4CIF) Up to 100fps@704 x 288 (2CIF) Up to 100fps@352 x 288 (CIF)
	Mode	Manual, Schedule, Event, Emergency		Manual, Schedule, Event, Emergency	
	Overwrite Modes	Continuous		Continuous	
	Pre-alarm	Up to 5 sec.		Up to 5 sec.	
	Post-alarm	Up to 60 sec.		Up to 60 sec.	
Search & Playback	Search Mode	Date/time, Event, Calendar, Text (SVM-S1)		Date/time, Event, Calendar, Text (SVM-S1)	
	Playback Function	REW, FWD, Frame advance (Control keys and jog shuttle)		REW, FWD, Frame advance (Control keys)	
Network	Transmission Speed	Up to 40Mbps		Up to 40Mbps	
	Bandwidth Control	Automatic		Automatic	
	Multi Stream	H.264 (Dual Stream) /JPEG		H.264 (Dual Stream) /JPEG	
	Max. Remote Users	10 Simultaneously		10 simultaneously	
	Protocol Support	TCP/IP, ARP, ICMP, DHCP, PPPoE, UDP, SMTP, FTP, SNTP, HTTP, DNS, DDNS, RTP, RTSP, SOAP		TCP/IP, ARP, ICMP, DHCP, PPPoE, UDP, SMTP, FTP, SNTP, HTTP, DNS, DDNS, RTP, RTSP, SOAP	
	Monitoring	CMS Software(SVM-S1), Built-in web server		CMS Software(SVM-S1), Built-in web server	
Storage	Maximum Capacity	Up to 16TB using external storage option		Up to 10TB using external storage option	
	Internal HDD	Up to 4 SATA HDDs		Up to 2 SATA HDDs (In case of DVD writer use, 1 SATA HDD is available)	
	External HDD	Up to 1 expansion bay		Up to 1 expansion bay	
	DVD Writer (Back up)	DVD-R(+/-) / CD-R(+/-)		DVD-R(+/-) / CD-R(+/-)	
	USB (Back up)	2 External USB Ports		2 External USB Ports	
	File Format (Back up)	AVI, Proprietary format (Include viewer) / JPEG (CMS)		AVI, Proprietary format (Include viewer) / JPEG (CMS)	
Security	Password Protection	1 Admin, 10 User		1 Admin, 10 User	
	Data Authentication	Watermark		Watermark	
INTERFACE					
Monitors	VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution		Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution	
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback		1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Sub Composite	1 BNC, 1 Vp-p, 75 ohm		N/A	
	Loop Outputs	16 Composite video 1 Vpp, 75 ohm		4 Composite video 1 Vpp, 75 ohm	
Audio	Inputs	16 Line in, 30K ohm		4 Line in, 30K ohm	
	Output	1 Line, 100K ohm		1 Line, 100K ohm	
	Compression	ADPCM		ADPCM	
	Sampling Rate	16KHz		16KHz	
Alarm	Inputs	Terminal 16 inputs, NO/NC		Terminal 4 inputs, NO/NC	
	Outputs	Terminal 4 relay outputs, NO/NC		Terminal 2 relay outputs, NO/NC	
	Remote Notification	Notification via e-mail		Notification via e-mail	
Connections	Ethernet	RJ-45 10/100/1000 Base-T		RJ-45 10/100/1000 Base-T	
	Serial Interface	RS-232C		RS-232C	
	PTZ Control Interface	RS-485/422		RS-485	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V		RS-485, Max. signal voltage ±12V	
	USB	2 USB 2.0 ports		2 USB 2.0 ports	
	eSATA	1 External SATA port		1 External SATA port	
	Application Support	ATM/POS, Remote controller		ATM/POS, Remote controller	
Communication Protocols	Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Pelco Coaxitron(Option) *Protocols will be added to next firmware version.		Samsung Techwin, Pelco D, Pelco P, Pelco Coaxitron(Option) *Protocols will be added to next firmware version.	
GENERAL					
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging		12V DC Adapter (or 100 to 240 VAC ±10%; 50/60 Hz, Autoranging)	
	Power Consumption	Max. 60W (With 1X HDD) / Max. 85W (With 2X HDD)		Max. 45W (With 1X HDD) / Max. 60W (With 2X HDD)	
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)		+5°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	0% ~ 60%RH		0% ~ 60%RH	
Mechanical	Dimensions (WxHxD)	445 x 88 x 388mm (17.52" x 3.46" x 15.28")		350 x 88 x 400mm (13.78" x 3.46" x 15.75")	
	Weight (4X Hard Disks)	Approx. 10Kg (22.05 lb)		Approx. 7Kg (15.43 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack		N/A	
Language		English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Korean, Chinese, Taiwanese		English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Korean, Chinese, Taiwanese	

Dimensions

Unit : mm (inch)

388 (15.28")

445 (17.52")

88 (3.46")

SVR-1670

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.

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