

A Full Range of Recording Systems



Ultimate Performance SVR-3200/1680

- 32 Channel half D1 resolution 960fps(N), 800fps(N) recording
- 16 Channel D1 resolution 480fps(N), 400fps(N) recording
- Multi-stream support
- Powerful CMS support as standard
- 16 channel audio recording
- Built-in DVD Writer, Max. 5 ~ 6 multi-monitor
- Convenient Thumbnail/Bookmark search modes



High Quality Recording SVR-1660/1645

- 16 Channel 480fps(N), 400fps(N) real-time recording
- Multi-stream support (SVR-1660)
- Powerful CMS support as standard
- 16 channel audio recording, Various search modes
- Built-in DVD Writer, Max. 3 multi-monitor



Versatile System SVR-960/945

- 9 Channel 270fps(N), 225fps(N) real-time recording
- Powerful CMS support as standard
- Fast backup with DVD writer and USB ports
- Convenient search modes, Max. 3 multi-monitor
- ATM/POS text recording

Super Vision DVR 32Ch/16Ch/9Ch SVR-3200/1680/1660/1645/960/945



Specifications

	SVR-3200	SVR-1680	SVR-1660	SVR-1645	SVR-960	SVR-945	
DISPLAY							
Video Inputs	32 Composite video 0.5-2 Vpp, 75 ohm automatic termination		16 Composite video 0.5-2 Vpp, 75 ohm automatic termination		9 Composite video 0.5-2 Vpp, 75 ohm automatic termination		
Resolution			NTSC : 704 x 480 / PAL : 704 x 576				
Frame Rate			NTSC : 480fps / PAL : 400fps				
Live Resolution	NTSC : 960fps / PAL : 800fps		NTSC : 480fps / PAL : 400fps		NTSC : 270fps / PAL : 225fps		
Multi Screen Display			1 / 4 / 9 / 10 / 16		1 / 4 / 9		
PERFORMANCE							
Compression			MPEG-4				
Record Rate	Up to 480fps@704 x 480(N) Up to 960fps@704 x 240(N) Up to 960fps@352 x 240(N) Up to 400fps@704 x 576(P) Up to 800fps@704 x 288(P) Up to 800fps@352 x 288(P)	Up to 480fps@704 x 480(N) Up to 480fps@704 x 240(N) Up to 480fps@352 x 240(N) Up to 400fps@704 x 576(P) Up to 400fps@704 x 288(P) Up to 400fps@352 x 288(P)	Up to 120fps@704 x 480(N) Up to 240fps@704 x 240(N) Up to 480fps@352 x 240(N) Up to 100fps@704 x 576(P) Up to 200fps@704 x 288(P) Up to 400fps@352 x 288(P)		Up to 120fps@704 x 480(N) Up to 240fps@704 x 240(N) Up to 270fps@352 x 240(N) Up to 100fps@704 x 576(P) Up to 200fps@704 x 288(P) Up to 225fps@352 x 288(P)		
Recording Mode	Manual, Schedule, Event, Emergency						
Override Modes	Continuous						
Pre-alarm	Up to 5sec						
Post-alarm	Up to 60sec						
Search & Playback Search Mode	Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer)						
Playback Function	REW, FWD, Frame advance (Control keys and jog shuttle)			REW, FWD, Frame advance			
Transmission Speed	Up to 16Mbps			Up to 9Mbps			
Bandwidth Control	Automatic			Automatic			
Multi Stream	MPEG-4 (Dual Stream) / JPEG			MPEG-4 (Dual Stream) / JPEG			
Max. Remote Users	10 Simultaneously			10 Simultaneously			
Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, FTP, ICMP and NTP			TCP/IP, DHCP, DNS, DDNS, HTTP, FTP, ICMP and NTP			
Monitoring	CMS Software (SNM-128S/P), Built-in web server			CMS Software (SNM-128S/P), Built-in web server			
Maximum Capacity	Up to 16TB using external storage option			Up to 8TB using external storage option			
Internal HDD	Up to 4 SATA HDDs			Up to 2 SATA HDDs			
External HDD	Up to 2 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)	BMP, AVI, Proprietary format / JPEG (Exclusive viewer)			BMP, AVI, Proprietary format / JPEG (Exclusive viewer)			
Password Protection	10 User level			10 User level			
Data Authentication	Watermark			Watermark			
INTERFACE							
VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution						
Monitors	Main Composite 3 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback		1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback			
Sub Composite	3 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu		1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu			
Loop Outputs	N/A	16 Composite video 1 Vpp, 75 ohm		9 Composite video 1 Vpp, 75 ohm			
Audio Inputs	16 Line in, 30K ohm		1 Line, 100K ohm	9 Line in, 30K ohm			
Output	16 Line in, 30K ohm		1 Line, 100K ohm	9 Line in, 30K ohm			
Compression	ADPCM		ADPCM	ADPCM			
Sampling Rate	16KHz		16KHz	16KHz			
Inputs	Terminal 16 inputs, NO/NC		Terminal 9 inputs, NO/NC	Terminal 9 inputs, NO/NC			
Outputs	Screw terminal 4 relay outputs, NO/NC		Screw terminal 4 relay outputs, NO/NC	Screw terminal 4 relay outputs, NO/NC			
Remote Notification	Notification via e-mail		Notification via e-mail	Notification via e-mail			
Ethernet	RJ-45 10/100 Base-T		RJ-45 10/100 Base-T	RJ-45 10/100 Base-T			
Serial Interface	RS-232C		RS-232C	RS-232C			
PTZ Control Interface	RS-485, Max. signal voltage ±12V		RS-485/422	RS-485/422			
PTZ Keyboard	USB 2.0		USB 2.0	USB 2.0			
USB	2 External SATA ports		2 External SATA ports	2 External SATA ports			
eSATA	ATM/POS, Mouse, Remote controller		ATM/POS, Mouse, Remote controller	ATM/POS, Mouse, Remote controller			
Application Support	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC		Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC			
Supported PTZ Cameras							
GENERAL							
Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Autoranging		100 ~ 240V AC ±10%, 50/60Hz, Autoranging	100 ~ 240V AC ±10%, 50/60Hz, Autoranging			
Power Consumption	Max. 65W (With 1X HDD) Max. 90W (With 4X HDD)		Max. 65W (With 1X HDD) Max. 85W (With 4X HDD)	Max. 65W (With 1X HDD) Max. 90W (With 4X HDD)	Max. 65W (With 1X HDD) Max. 85W (With 4X HDD)		
Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)		+5°C ~ +40°C (+32°F ~ +104°F)	+5°C ~ +40°C (+32°F ~ +104°F)			
Operating Humidity	0% ~ 60%RH		0% ~ 60%RH	0% ~ 60%RH			
Dimensions (WxHxD)	445 x 88 x 388mm (17.52" x 3.46" x 15.28")		445 x 88 x 388mm (17.52" x 3.46" x 15.28")	445 x 88 x 388mm (17.52" x 3.46" x 15.28")			
Weight (4X Hard Disks)	Approx. 10Kg (22.06 lb)		Approx. 8Kg (17.64 lb)	Approx. 5Kg (11.02 lb)			
Rack Mount Kit	For mounting one unit in an EIA 19 inch rack		For mounting one unit in an EIA 19 inch rack	For mounting one unit in an EIA 19 inch rack			
Language	Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese (Languages will be added to next firmware version)						

* Some functions will be added to next firmware version.



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



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Dimensions

Unit : mm



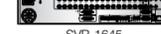
SVR-3200



SVR-1680



SVR-1660



SVR-1645



SVR-960



SVR-945



SVR-960



SVR-945



SVR-960



SVR-945



SVR-960



SVR-945



SVR-960



SVR-945



SVR-960



SVR-945

Design and specifications are subject to change without notice.

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I.D-0808



Full D1 Quality Recording in Real-time



SVR-3200/1680/1660/1645/960/945

Imagine High Quality Real-time Recording

The SVR series include cutting-edge digital recording systems that achieve D1(704 x 480) high resolution image real-time recording capability, Multi-stream for optimal network images, CMS network integrated system support, and powerful search and playback features for enhanced convenience.

Preliminary

SAMSUNG TECHWIN





As if you are watching a high quality movie...

**High resolution D1 image real-time recording
Powerful Functions, Flexible Systems**



- D1 (704 x 480) 480fps(N) real-time video recording
- Multi-stream support for optimized network monitoring
- Powerful CMS support as standard
- 16 channel audio recording, Thumbnail search
- Built-in DVD writer, Max. 6 multi-monitor



Samsung Techwin introduces Super Vision Recording Systems

The Samsung Techwin's high-tech DVR series, SVR-3200/1680/1660/1645/960/945 are 'Super Vision Recording Systems that provide D1 high resolution video real-time recording capability and real-time high quality network monitoring with multi-stream and CMS management features. Also, the DVRs are equipped with a wide range of smart functions for user convenience and system reliability, enabling the user to have a premium quality recording and monitoring system at any time.



Super Vision Digital Video Recorder

SVR-3200/1680/1660/1645/960/945

High Image Quality Live & Recording



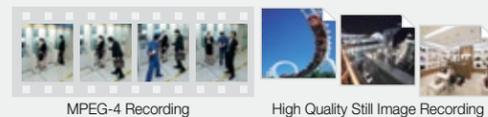
Home Theater... High Quality image



Real-time High-resolution (704 x 480) Recording

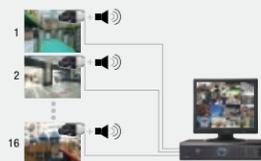
- The SVR series have applied a high speed data processing technology for all channel MPEG-4 full-frame compression, thus it has been achieved to record and play D1(704 x 480) level high resolution images of 480fps in real time. (SVR-3200/1680)

- The SVR series also support high quality still image recording when an event occurs.



16 Channel Audio Recording

Audio recording is possible on up to 16 channels, and there is an audio detection feature so that event recording is possible when sound is input at a specific level.



Emergency Recording Mode

Regular recording and event recording or schedule recording and event recording can be set at the same time for an optimal response to various usage circumstances. Also, the DVR provides an emergency recording feature so that important video data is not lost when urgent situations arise.



Reliable DVR File System

Incorporating a high-capacity and high speed data storage technology, the SVR series allow the user full-channel recording and playback of D1 images (704 x 480). Also, as header motion of a hard disk has been effectively minimized, HDDs of the DVRs have less emission of heat and a longer life-time now.



Enhanced Network Monitoring



Multi-stream Support for Real-time Monitoring

The network codec chip is added to the SVR series in order to specifically support JPEG and QCIF files along with other saved images and live images ; this allows the high-quality, real-time monitoring given the optimal network condition.



Convenient Monitoring with 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.



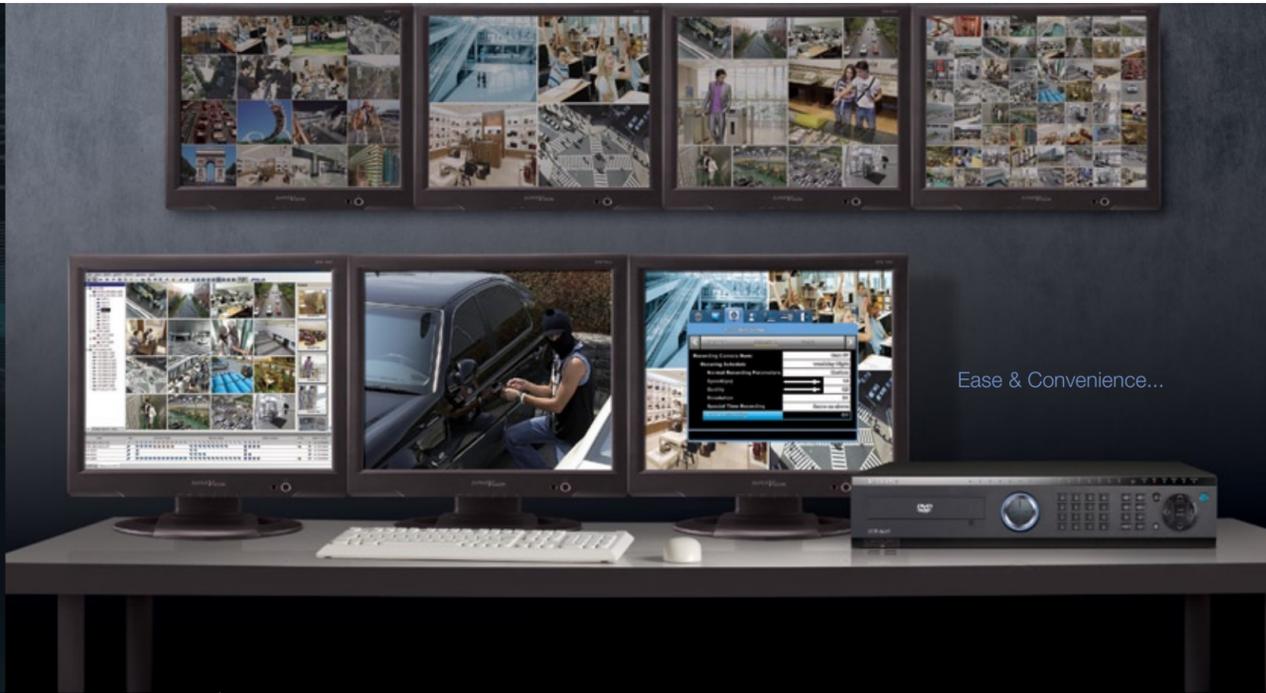
Web-viewer Monitor

Web-viewer Playback

Powerful Network Management



Advanced User Convenience



High Quality Real-time DVR



Maximum 12TB Capacity

Up to 4 internal HDDs can be installed in the DVR for long-term archiving, and SVS-5E, an external hard drive equipment can also be used to expand the storage capacity up to 12HDDs.
(* Up to 12TB expansion is possible including internal/external HDDs)



SVS-5E HDD Extension Unit



ATM/POS Text Recording

The SVR series are compatible with ATM, POS, or access control devices, so the texts can be saved along with associated images, and also played back later.



System Controller

Using the SCC-3100A, a system controller, integrated control of up to 255 DVR and Speed Domes is possible. It is equipped with multi protocols to connect with and control various devices from other manufacturers as well allowing users to set up a large sized security system easily.



SCC-3100A



Convenient Design

The SVR-3200/1680/1645 provide a jog dial and LED indicator lamps for greater convenience. Furthermore, it has a polished black color and mirrors, further enhancing its high quality and reliability as a security product.



Powerful CMS Support (SNM-128S/P)

The SVR series support the CMS for integrated network management. The Samsung Network Manager, SNM-128S/P is a powerful centralized management solution that monitors multiple sites with video, audio and alarm signals over the network.

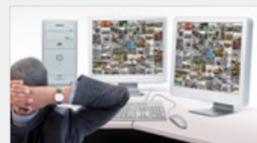


SNM-128S CMS Software



Max. 128 Channel Real-time Monitoring

The SNM-128S/P can monitor up to 128 channels from anywhere in the world simultaneously. A maximum of 64 cameras can be shown on one monitor. It also supports a wide variety of screen split modes such as 1, 4, 9, 13, 16, 25, 36 and 64 divisions.



Enhanced Event/Alarm Management

The users can check the event with more ease via enhanced event/alarm functions such as List, Map, Beeper, Live Image, and Tree modes.



Powerful MAP Viewer Support

Map viewer feature is supported with the SNM-128S/P. It provides graphic map information of the alerted areas when events occur, ensuring more efficient security management.



Various Quick & Easy Search Modes

- **Thumbnail Search**
Users can check videos in the thumbnail image viewer and find saved videos more quickly
- **Book Mark Function**
When users register desired playback points, users can directly play the video when needed without searching it again.
- **Calendar Search**
Videos can be easily searched for by just entering a selected date and time.



Thumbnail Search

Calendar Search



Multi-monitor Support

Max. 3 to 6 multi-monitors can be connected with the DVR, providing total image security management.



High Speed DVD Back up

The DVR comes equipped with a high speed DVD Writer that can back up large data much faster. For example, 4 giga bytes of data can be copied to a DVD within just 30 minutes. In addition, easy backup with front USB ports are also provided.



DVD Writer

Front USB port