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Professional Video Security Solutions



DVR
Samsung Digital Security Systems







SAMSUNG TECHWIN



DVR SELECTION

	SVR-3200	SVR-1680	SVR-1660	SVR-1645
				
OS	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
Display Rate	960fps(N), 800fps(P)	480fps(N), 400fps(P)	480fps(N), 400fps(P)	480fps(N), 400fps(P)
Recording Rate	480fps@D1(N), 400fps@D1(P) 960fps@half D1(N), 800fps@half D1(P) 960fps@CIF(N), 800fps@CIF(P)	480fps@D1(N), 400fps@D1(P) 480fps@half D1(N), 400fps@half D1(P) 480fps@CIF(N), 400fps@CIF(P)	120fps@D1(N), 100fps@D1(P) 240fps@half D1(N), 200fps@half D1(P) 480fps@CIF(N), 400fps@CIF(P)	120fps@D1(N), 100fps@D1(P) 240fps@half D1(N), 200fps@half D1(P) 480fps@CIF(N), 400fps@CIF(P)
Codec	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Video Input	32 Channels	16 Channels	16 Channels	16 Channels
Max. Resolution	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)
Simultaneous MPEG-4/JPEG Streaming	Yes	Yes	Yes	N/A
Internal HDD	4 HDDs	4 HDDs	4 HDDs	2 HDDs
External HDD	Up to 2 expansion bay	Up to 2 expansion bay	Up to 2 expansion bay	1 expansion bay
DVD	Yes	Yes	Yes	Yes
Audio Input / Output	16 / 1	16 / 1	16 / 1	16 / 1
Alarm Input / Output	16 / 4	16 / 4	16 / 4	16 / 4
Max. Remote Users	10 Simultaneously	10 Simultaneously	10 Simultaneously	10 Simultaneously
Network Transport Speed	Up to 16Mbps	Up to 16Mbps	Up to 9Mbps	Up to 9Mbps
Viewer Application	SNM-128S/P	SNM-128S/P	SNM-128S/P	SNM-128S/P
ATM / POS	Yes	Yes	Yes	Yes
PTZ Control	Yes	Yes	Yes	Yes
Mouse	Yes	Yes	Yes	Yes

DVR

	SVR-960	SVR-945	SVR-940	SVR-450	SVR-440
					
OS	Embedded Linux	Embedded Linux	RTOS	RTOS	RTOS
Display Rate	270fps(N), 225fps(P)	270fps(N), 225fps(P)	270fps(N), 225fps(P)	120fps(N), 100fps(P)	120fps(N), 100fps(P)
Recording Rate	120fps@D1(N), 100fps@D1(P) 240fps@half D1(N), 200fps@half D1(P) 270fps@CIF(N), 225fps@CIF(P)	120fps@D1(N), 100fps@D1(P) 240fps@half D1(N), 200fps@half D1(P) 270fps@CIF(N), 225fps@CIF(P)	30fps@D1(N), 25fps@D1(P) 60fps@half D1(N), 50fps@half D1(P) 120fps@CIF(N), 100fps@CIF(P)	30fps@D1(N), 25fps@D1(P) 120fps@CIF(N), 100fps@CIF(P)	30fps@D1(N), 25fps@D1(P) 120fps@CIF(N), 100fps@CIF(P)
Codec	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Video Input	9 Channels	9 Channels	9 Channels	4 Channels	4 Channels
Max. Resolution	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)
Simultaneous MPEG-4/JPEG Streaming	Yes	Yes	N/A	N/A	N/A
Internal HDD	2 HDDs	2 HDDs	2 HDDs	1 HDD	1 HDD
External HDD	1 expansion bay	1 expansion bay	N/A	N/A	N/A
DVD	Yes	N/A	Yes (CD-RW)	Yes (CD-RW)	N/A
Audio Input / Output	9 / 1	9 / 1	4 / 1	4 / 1	4 / 1
Alarm Input / Output	9 / 4	9 / 4	9 / 4	4 / 1	4 / 1
Max. Remote Users	10 Simultaneously	10 Simultaneously	4 Simultaneously	4 Simultaneously	1 Simultaneously
Network Transport Speed	Up to 9Mbps	Up to 9Mbps	Up to 16Mbps	Up to 16Mbps	Up to 16Mbps
Viewer Application	SNM-128S/P	SNM-128S/P	SNM-64S/P	SNM-64S/P	SNM-64S/P
ATM / POS	Yes	Yes	Yes	Yes	Yes
PTZ Control	Yes	Yes	Yes	Yes	Yes
Mouse	Yes	Yes	N/A	N/A	N/A



NEW DVR FEATURES

Redefining what you should expect from a DVR

Samsung Techwin's newest series of DVRs offer powerful features and high-end performance that would normally be found only in enterprise class systems at a much higher cost. From the 4 channel SVR-440 to the 32 channels SVR-3200, we are redefining the performance and system capabilities available in stand-alone digital video recorders.

Enterprise class performance in a mainstream DVR real-time full D1 quality recording

The newest series of Samsung Techwin DVRs are capable of recording full D1 resolution in real-time for up to 16 channels. With the latest MPEG-4 compression technology, they will redefine what you should expect in video quality and performance from a mainstream DVR.



CIF (352 x 240)



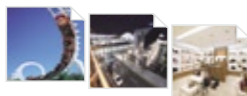
D1 (704 x 480)

Multi-stream support for real-time monitoring

The DVRs are capable of providing simultaneous MPEG-4 and JPEG streams. This means that they can produce E-mail event notifications with embedded pictures in addition to high quality real-time video that can be tailored to meet network requirements.



MPEG-4 Recording



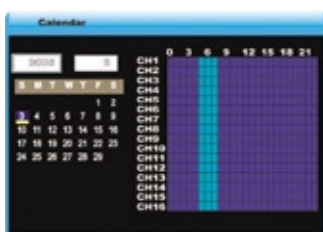
High Quality Still Image Recording

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, they 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



Thumbnail Search

Powerful CMS support : Samsung Network Manager (SNM-128S)

Samsung Techwin DVRs come with a copy of the standard version of our Network Management software. This is a map-based GUI that will allow the user to monitor and control multiple DVRs from one viewing and control location. For more information on the powerful remote management capabilities of this software, see the SNM-128S/P specifications in the network products section.



SNM-128S CMS Software

Various alarm & event control

Experience more convenient surveillance through the alarm/event control of our Network Management Software. It can monitor with pop-up images and lists by receiving event/alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating a warning, sound, to be performed when an alarm signal is received. The alarm control station, supports more powerful alarm/event management.



Alarm control station (Window for alarm status control only)

- Instant viewer, Live image indication
- Instant player, Recorded image playback (DVR only)
- Alarm status check and add incident response comments to events
- If FTP is possible then it is missing in the specifications

Built-in Web Server

These DVRs have a built-in web server which will allow remote viewing, PTZ control, and playback using an Internet browser.



Web-viewer Monitor



Web-viewer Playback



DVR TERMS & FEATURES

Recording Time Table (NTSC)

* Note : Actual recording time will vary depending on the amount of motion and picture detail in the scene. This timetable is authored SVR-3200/1680/1660/1645/960/945 according to firmware version 1.2.2, content of this timetable can differ by Firmware version.

SVR-3200

Installed Hard Disk : 500GB Unit : Days

704 x 480 FPS	Q5	Q4	Q3	Q2	Q1
480	0.5	0.6	0.8	1.1	1.8
240	0.7	0.8	1.1	1.4	2.3
120	0.8	1.1	1.4	1.9	2.8
64	1.2	1.4	1.8	2.3	3.3
32	1.8	2.1	2.6	3.5	5.1
704 x 240 FPS	Q5	Q4	Q3	Q2	Q1
960	0.6	0.8	1.0	1.4	2.2
480	0.9	1.1	1.3	1.8	2.7
240	1.2	1.4	1.8	2.3	3.3
120	1.5	1.8	2.1	2.7	3.6
64	2.2	2.6	3.2	4.1	5.8
32	3.0	3.6	4.3	5.4	7.3

SVR-1680

Installed Hard Disk : 500GB Unit : Days

704 x 480 FPS	Q5	Q4	Q3	Q2	Q1
480	0.7	0.8	1.1	1.6	2.7
240	0.9	1.2	1.5	2.1	3.5
120	1.3	1.6	2.1	2.9	4.6
64	1.7	2.1	2.6	3.5	5.4
32	2.5	3.1	3.9	5.3	8.3
16	3.5	4.2	5.3	7.1	10.8
704 x 240 FPS	Q5	Q4	Q3	Q2	Q1
480	0.9	1.1	1.4	2.0	3.4
240	1.2	1.5	1.9	2.6	4.3
120	1.7	2.1	2.6	3.5	5.4
64	2.2	2.6	3.2	4.2	6.2
32	3.2	3.9	4.8	6.5	9.7
16	4.5	5.3	6.6	8.6	12.5

SVR-1660

Installed Hard Disk : 500GB Unit : Days

352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
480	1.4	1.8	2.4	3.6	7.2
240	2.1	2.6	3.4	5.2	10.3
120	3.1	3.8	5.1	7.7	15.3
64	4.1	5.1	6.8	10.2	20.4
32	5.8	7.3	9.7	14.5	29.2
16	8.3	10.4	13.9	20.8	41.6

SVR-1645

Installed Hard Disk : 500GB Unit : Days

352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
480	1.4	1.8	2.4	3.6	7.2
240	2.1	2.6	3.4	5.2	10.3
120	3.1	3.8	5.1	7.7	15.3
64	4.1	5.1	6.8	10.2	20.4
32	5.8	7.3	9.7	14.5	29.2
16	8.3	10.4	13.9	20.8	41.6

SVR-960

Installed Hard Disk : 500GB Unit : Days

352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
270	2.6	3.2	4.3	6.4	12.9
234	2.8	3.5	4.6	6.9	13.8
135	3.7	4.6	6.1	9.2	18.4
90	4.5	5.7	7.5	11.3	22.7
67	5.4	6.8	9.1	13.6	27.2
36	7.3	9.1	12.1	18.1	36.2
18	10.4	13.0	17.3	25.8	52.0

SVR-945

Installed Hard Disk : 500GB Unit : Days

352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
270	2.6	3.2	4.3	6.4	12.9
234	2.8	3.5	4.6	6.9	13.8
135	3.7	4.6	6.1	9.2	18.4
90	4.5	5.7	7.5	11.3	22.7
67	5.4	6.8	9.1	13.6	27.2
36	7.3	9.1	12.1	18.1	36.2
18	10.4	13.0	17.3	25.8	52.0

SVR-940

Installed Hard Disk : 250GB Unit : Days

704 x 480 FPS	SUPER	HIGH	NORMAL
27	2.8	7.4	17.5
9	6.1	16.4	24.9
704 x 240 FPS	SUPER	HIGH	NORMAL
54	2.8	7.9	11.4
27	4.1	10.3	16.6
9	8.4	21.1	32.9
352 x 240 FPS	SUPER	HIGH	NORMAL
120	2.8	8.8	12.6
99	2.9	9.2	14
45	4.7	14.1	18.4
9	10	32.9	47.2

SVR-450

Installed Hard Disk : 250GB Unit : Days

704 x 480 FPS	SUPER	HIGH	NORMAL
28	6.16	18.49	24.65
20	6.90	20.69	27.58
12	7.96	23.88	31.84
4	9.65	28.94	38.58
352 x 240 FPS	SUPER	HIGH	NORMAL
120	5.92	17.76	23.69
80	7.71	23.13	30.84
40	11.04	33.13	44.18
4	18.08	54.25	72.34

SVR-440

Installed Hard Disk : 160GB Unit : Days

704 x 480 FPS	SUPER	HIGH	NORMAL
28	3.94	11.83	15.78
20	4.41	13.24	17.65
12	5.09	15.28	20.37
4	6.17	18.52	24.69
352 x 240 FPS	SUPER	HIGH	NORMAL
120	3.79	11.37	15.16
80	4.93	14.80	19.74
40	7.07	21.20	28.27
4	11.57	34.72	46.30



DVR TERMS & FEATURES

Recording Time Table (PAL)

* Note : Actual recording time will vary depending on the amount of motion and picture detail in the scene. This timetable is authored SVR-3200/1680/1660/1645/960/945 according to firmware version 1.2.2, content of this timetable can differ by Firmware version.

SVR-3200 Installed Hard Disk : 500GB						SVR-1680 Installed Hard Disk : 500GB						SVR-1660 Installed Hard Disk : 500GB					
Unit : Days						Unit : Days						Unit : Days					
704 x 576 FPS	Q5	Q4	Q3	Q2	Q1	704 x 576 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	0.5	0.6	0.8	1.1	1.8	400	0.7	0.8	1.1	1.6	2.7	400	1.4	1.8	2.4	3.6	7.2
200	0.7	0.8	1.1	1.4	2.3	200	0.9	1.2	1.5	2.1	3.5	200	2.1	2.6	3.4	5.2	10.3
100	0.8	1.1	1.4	1.9	2.8	100	1.3	1.6	2.1	2.9	4.6	100	3.1	3.8	5.1	7.7	15.3
50	1.2	1.4	1.8	2.3	3.3	50	1.7	2.1	2.6	3.5	5.4	50	4.1	5.1	6.8	10.2	20.4
25	1.8	2.1	2.6	3.5	5.1	25	2.5	3.1	3.9	5.3	8.3	25	5.8	7.3	9.7	14.5	29.2
704 x 288 FPS	Q5	Q4	Q3	Q2	Q1	704 x 288 FPS	Q5	Q4	Q3	Q2	Q1	12.5	8.3	10.4	13.9	20.8	41.6
800	0.6	0.8	1.0	1.4	2.2	400	0.9	1.1	1.4	2.0	3.4	12.5	4.5	5.3	6.6	8.6	12.5
400	0.9	1.1	1.3	1.8	2.7	200	1.2	1.5	1.9	2.6	4.3						
200	1.2	1.4	1.8	2.3	3.3	100	1.7	2.1	2.6	3.5	5.4						
100	1.5	1.8	2.1	2.7	3.6	50	2.2	2.6	3.2	4.2	6.2						
50	2.2	2.6	3.2	4.1	5.8	25	3.2	3.9	4.8	6.5	9.7						
25	3.0	3.6	4.3	5.4	7.3	12.5	4.5	5.3	6.6	8.6	12.5						

SVR-1645 Installed Hard Disk : 500GB						SVR-960 Installed Hard Disk : 500GB						SVR-945 Installed Hard Disk : 500GB					
Unit : Days						Unit : Days						Unit : Days					
352 x 288 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	1.4	1.8	2.4	3.6	7.2	225	2.6	3.2	4.3	6.4	12.9	225	2.6	3.2	4.3	6.4	12.9
200	2.1	2.6	3.4	5.2	10.3	198	2.8	3.5	4.6	6.9	13.8	198	2.8	3.5	4.6	6.9	13.8
100	3.1	3.8	5.1	7.7	15.3	112.5	3.7	4.6	6.1	9.2	18.4	112.5	3.7	4.6	6.1	9.2	18.4
50	4.1	5.1	6.8	10.2	20.4	72	4.5	5.7	7.5	11.3	22.7	72	4.5	5.7	7.5	11.3	22.7
25	5.8	7.3	9.7	14.5	29.2	56	5.4	6.8	9.1	13.6	27.2	56	5.4	6.8	9.1	13.6	27.2
12.5	8.3	10.4	13.9	20.8	41.6	28	7.3	9.1	12.1	18.1	36.2	28	7.3	9.1	12.1	18.1	36.2
						14	10.4	13.0	17.3	25.8	52.0	14	10.4	13.0	17.3	25.8	52.0

SVR-940 Installed Hard Disk : 250GB				SVR-450 Installed Hard Disk : 250GB				SVR-440 Installed Hard Disk : 160GB			
Unit : Days				Unit : Days				Unit : Days			
704 x 576 FPS	SUPER	HIGH	NORMAL	704 x 576 FPS	SUPER	HIGH	NORMAL	704 x 576 FPS	SUPER	HIGH	NORMAL
18	2.8	8.6	12.6	24	6.50	19.49	25.99	24	4.16	12.48	16.64
9	6.1	14.6	22.7	16	7.37	22.12	29.49	16	4.72	14.16	18.87
704 x 288 FPS	SUPER	HIGH	NORMAL	12	7.96	23.88	31.84	12	5.09	15.28	20.37
45	2.5	7.3	10.3	4	9.65	28.94	38.58	4	6.17	18.52	24.69
27	3.9	9.5	14.5	352 x 288 FPS	SUPER	HIGH	NORMAL	352 x 288 FPS	SUPER	HIGH	NORMAL
9	6.4	18.8	26.9	100	6.70	20.09	26.79	100	4.29	12.86	17.15
352 x 288 FPS	SUPER	HIGH	NORMAL	68	8.48	25.43	33.91	68	5.43	16.28	21.70
100	2.6	7.9	12.0	52	9.78	29.33	39.10	52	6.26	18.77	25.03
45	4.4	12.4	16.6	4	18.08	54.25	72.34	4	11.57	34.72	46.30
9	10.4	28.4	45.4								



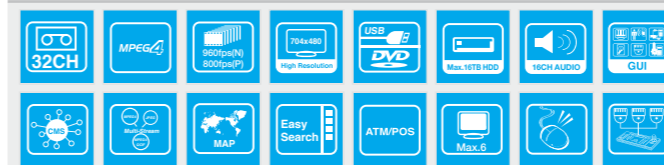
SVR-3200

32 Channel Premium DVR with 960fps at half D1 resolution



Overview

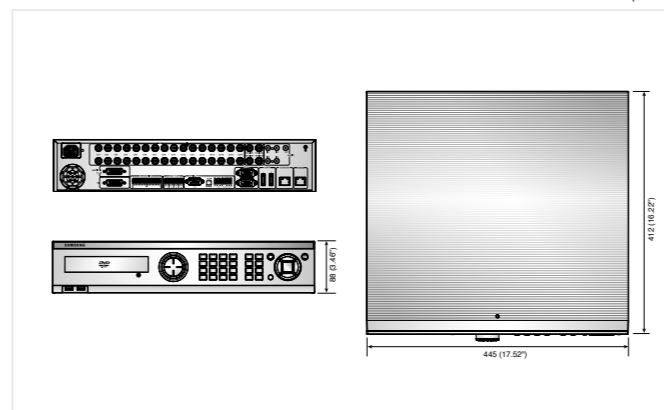
The SVR-3200 provides 32 channels of high resolution real-time video recording capability at half D1 (704 x 240) resolution. The SVR-3200 allows the user to customize the recording setting to achieve real-time full D1 (704 x 480) resolution on selected channels. The SVR-3200 also comes with network monitoring software which allows the user to have remote access and control of the DVR over the network. The SVR-3200 is the perfect choice for medium to large businesses.



Features

- True real-time 960fps(N), 800fps(P) D1 high resolution live display
- 960fps(N), 800fps(P) half D1 resolution video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)] [704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S/P)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- Thumbnail search / Calendar search / Book mark function
- 6 Multi-monitor
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

Dimensions



Technical Specifications

SVR-3200	
DISPLAY	
Video Inputs	32 Composite video 0.5-2 Vpp, 75 ohm automatic termination
Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Frame Rate	NTSC : 960fps / PAL : 800fps
Live Resolution	NTSC : 704 x 480 / PAL : 704 x 576
Multi Screen Display	1 / 4 / 9 / 10 / 16
PERFORMANCE	
Compression	MPEG-4
Record Rate	NTSC Up to 480fps@704 x 480 Up to 960fps@704 x 240 Up to 960fps@352 x 240
	PAL Up to 400fps@704 x 576 Up to 800fps@704 x 288 Up to 800fps@352 x 288
Recording Mode	Manual, Schedule, Event, Emergency
Overwrite 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)
Transmission Speed	Up to 16Mbps
Bandwidth Control	Automatic
Multi Stream	MPEG-4 (Dual Stream) / JPEG
Max. Remote Users	10 Simultaneously
Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP
Monitoring	CMS Software (SNM-128S/P), Built-in web server
Maximum Capacity	Up to 16TB using external storage option
Internal HDD	Up to 4 SATA HDDs
External HDD	Up to 2 expansion bay
DVD Writer (Back up)	DVD-R / CD-R
USB (Back up)	2 External USB ports
File Format (Back up)	BMP, AVI, Proprietary format / JPEG (Exclusive viewer)
Security Password Protection	10 User level
Data Authentication	Watermark
INTERFACE	
VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution, 2VGA
Monitors Main Composite	BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback
Spot Composite	3 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu
Loop Outputs	N/A
Inputs	16 Line in, 30K ohm
Output	1 Line, 100K ohm
Compression	ADPCM
Sampling Rate	16KHz
Alarm Inputs	Terminal 16 inputs, NO/NC
Outputs	Terminal 4 relay outputs, NO/NC
Remote Notification	Notification via e-mail
Ethernet	RJ-45 10/100 Base-T
Serial Interface	RS-232C
PTZ Control Interface	RS-485/422
Connections PTZ Keyboard	RS-485, Max. signal voltage ±12V
USB	USB 2.0
eSATA	2 External SATA ports
Application Support	ATM/POS, Mouse, Remote controller
Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC
GENERAL	
Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging
Power Consumption	Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD)
Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)
Environmental Operating Humidity	0% ~ 60%RH
Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")
Mechanical Weight (4X Hard Disks)	Approx. 11Kg (24.25 lb)
Rack Mount Kit	For mounting one unit in an EIA 19 inch rack
Language	English, Korean, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)

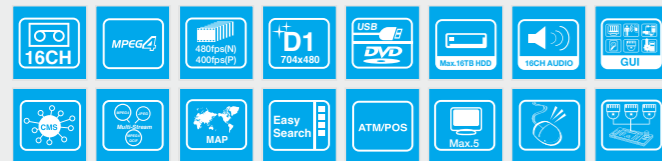
SVR-1680

16 Channel Premium DVR with 480fps at full D1 resolution



Overview

The SVR-1680 provides 16 channels of high resolution real-time video recording capability at full D1(704 x 480) resolution for all 16 channels. The SVR-1680 is compatible with Samsung's powerful CMS software which gives users full control of DVR functionality and administration. The SVR-1680 includes multiple monitor outputs, fast DVD back up, and built-in web server. The SVR-1680 is the perfect choice for medium to large businesses.

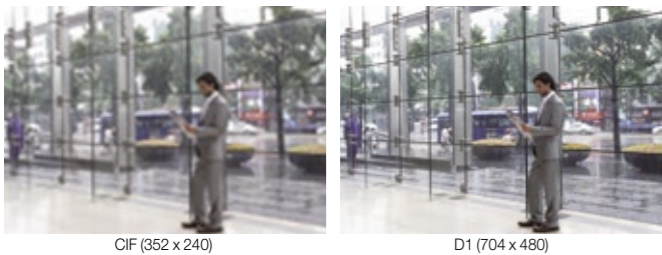


Features

- True real-time 480fps(N), 400fps(P) D1 high resolution live display
480fps(N), 400fps(P) D1 high resolution video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S/P)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- Thumbnail search / Calendar search / Book mark function
- 5 Multi-monitor • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

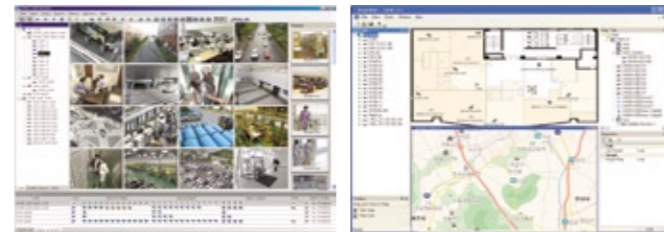
Real-time high resolution (704 x 480) recording

The SVR-1680 uses a high speed data processing technology with real-time MPEG-4 compression, thus it is possible to record and playback up to full D1 (704 x 480) resolution in real-time.



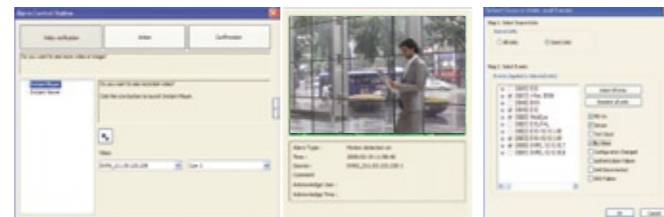
Powerful CMS support (SNM-128S/P)

The SVR-1680 is compatible with Samsung Network Management software, standard version and professional version. Both standard and professional versions will allow the user to monitor and control multiple sites over the network.



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.



SVR-1680

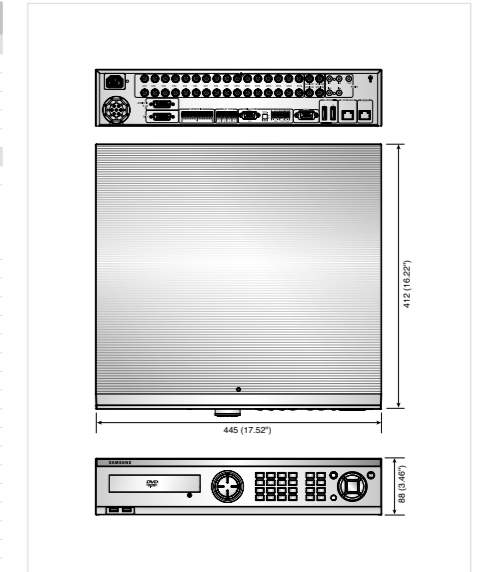
16 Channel Premium DVR with 480fps at full D1 resolution

Technical Specifications

		SVR-1680	
DISPLAY			
Video	Inputs	16 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	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
Live	Multi Screen Display	1 / 4 / 9 / 10 / 16	
	PERFORMANCE		
Recording	Compression	MPEG-4 NTSC PAL	
	Record Rate	Up to 480fps@704 x 480 Up to 480fps@704 x 240 Up to 480fps@352 x 240	
	Mode	Manual, Schedule, Event, Emergency	
	Overwrite 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)	
	Transmission Speed	Up to 16Mbps	
	Bandwidth Control	Automatic	
Network	Multi Stream	MPEG-4 (Dual Stream) / JPEG	
	Max. Remote Users	10 Simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP	
	Monitoring	CMS Software (SNM-128S/P), Built-in web server	
Storage	Maximum Capacity	Up to 16TB using external storage option	
	Internal HDD	Up to 4 SATA HDDs	
	External HDD	Up to 2 expansion bay	
	DVD Writer (Back up)	DVD-R / CD-R	
Security	USB (Back up)	2 External USB ports	
	File Format (Back up)	BMP, AVI, Proprietary format / JPEG (Exclusive viewer)	
	Password Protection	10 User level	
Data Authentication	Watermark		
INTERFACE			
Monitors	VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution	
	Main Composite	BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Spot Composite	3 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	
Audio	Loop Outputs	16 Composite video 1 Vpp, 75 ohm	
	Inputs	16 Line in, 30K ohm	
	Output	1 Line, 100K ohm	
Alarm	Compression	ADPCM	
	Sampling Rate	16KHz	
	Inputs	Terminal 16 inputs, NO/NC	
	Outputs	Terminal 4 relay outputs, NO/NC	
Connections	Remote Notification	Notification via e-mail	
	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
Dome Protocols	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	2 External SATA ports	
	Application Support	ATM/POS, Mouse, Remote controller	
Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC		
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
	Power Consumption	Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD)	
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	0% ~ 60%RH	
	Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")	
Mechanical	Weight (4X Hard Disks)	Approx. 11Kg (24.25 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack	
Language		English, Korean	
		Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	
Certifications		FCC (Class A), UL/cUL listed, CE (Class A)	

Dimensions

Unit : mm (inch)



Accessories

HDD Extension Unit SVS-5E



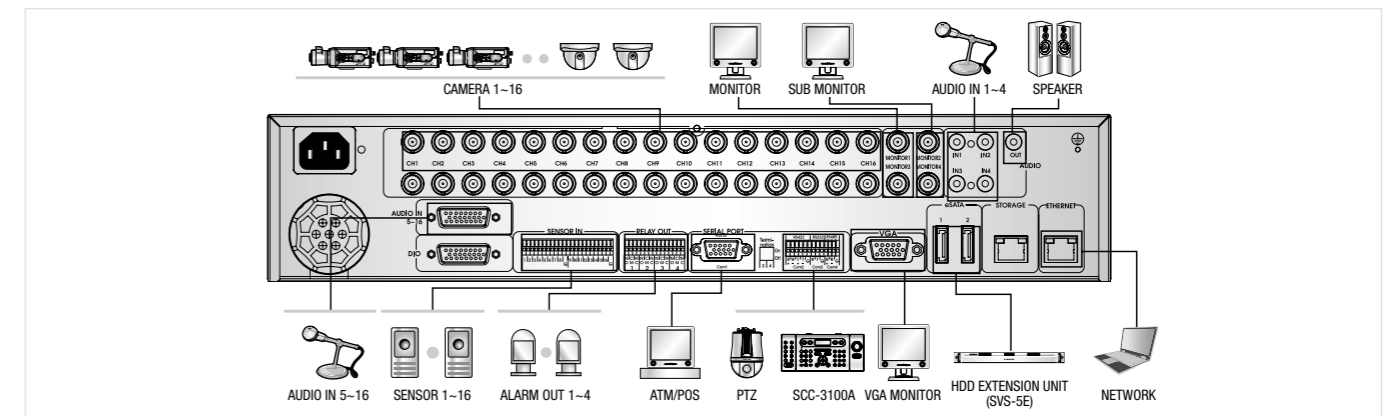
* See page 80 for more details.

Optional Controller



SCC-3100A

System Configuration



SVR-1660

16 Channel DVR with 480fps at CIF resolution

SAMSUNG TECHWIN SAMSUNG



Overview

The SVR-1660 provides a cost effective solution for real-time video recording of up to 16 cameras at CIF (352 x 240) resolution. SVR-1660 is compatible with Samsung's powerful CMS software giving users the full remote control of the DVR functionality and administration. The SVR-1660 includes advanced features such as multiple monitor outputs, fast DVD back up, and built-in web server.

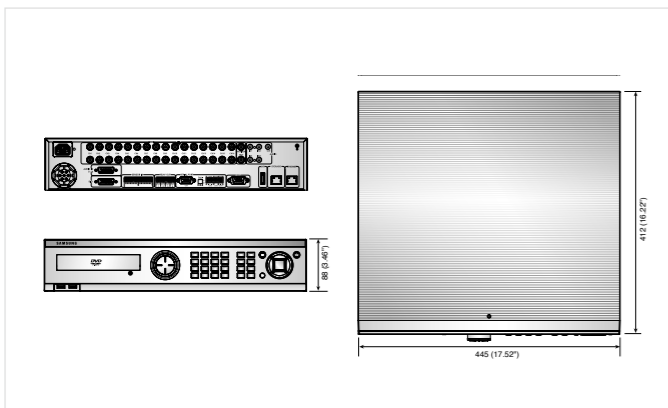


Features

- True real-time 480fps(N), 400fps(P) digital image display
480fps(N), 400fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S/P)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- Thumbnail search / Calendar search / Book mark function
- 3 Multi-monitor
- Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

Dimensions

Unit : mm (inch)



Technical Specifications

SVR-1660	
DISPLAY	
Video	Inputs 16 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 : 704 x 480 / PAL : 704 x 576
	Multi Screen Display 1 / 4 / 9 / 10 / 16
PERFORMANCE	
	Compression MPEG-4
	Record Rate NTSC Up to 120fps@704 x 480 Up to 240fps@704 x 240 Up to 480fps@352 x 240
	PAL Up to 100fps@704 x 576 Up to 200fps@704 x 288 Up to 400fps@352 x 288
Recording	Mode Manual, Schedule, Event, Emergency
	Overwrite 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)
	Transmission Speed Up to 9Mbps
	Bandwidth Control Automatic
Network	Multi Stream MPEG-4 (Dual Stream) / JPEG
	Max. Remote Users 10 Simultaneously
	Protocol Support TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP
	Monitoring CMS Software (SNM-128S/P), Built-in web server
	Maximum Capacity Up to 16TB using external storage option
	Internal HDD Up to 4 SATA HDDs
Storage	External HDD Up to 2 expansion bay
	DVD Writer (Back up) DVD-R / CD-R
	USB (Back up) 2 External USB ports
	File Format (Back up) BMP, AVI, Proprietary format / JPEG (Exclusive viewer)
Security	Password Protection 10 User level
	Data Authentication Watermark
INTERFACE	
	VGA Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution
Monitors	Main Composite 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback
	Spot Composite 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu
	Loop Outputs 16 Composite video 1 Vpp, 75 ohm
	Inputs 16 Line in, 30K ohm
Audio	Output 1 Line, 100K ohm
	Compression ADPCM
	Sampling Rate 16KHz
	Inputs Terminal 16 inputs, NO/NC
Alarm	Outputs Terminal 4 relay outputs, NO/NC
	Remote Notification Notification via e-mail
	Ethernet RJ-45 10/100 Base-T
	Serial Interface RS-232C
	PTZ Control Interface RS-485/422
Connections	PTZ Keyboard RS-485, Max. signal voltage ±12V
	USB USB 2.0
	eSATA 2 External SATA ports
	Application Support ATM/POS, Mouse, Remote controller
	Supported PTZ Cameras Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC
GENERAL	
Electrical	Input Voltage 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging
	Power Consumption Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD)
Environmental	Operating Temperature +5°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity 0% ~ 60%RH
	Dimensions (WxHxD) 445 x 88 x 412mm (17.52" x 3.46" x 16.22")
Mechanical	Weight (4X Hard Disks) Approx. 11Kg (24.25 lb)
	Rack Mount Kit For mounting one unit in an EIA 19 inch rack
Language	English, Korean, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)

SVR-1645

16 Channel DVR

SAMSUNG TECHWIN SAMSUNG



Overview

The SVR-1645 is a high performance digital video recorder with 16 camera inputs. The DVR comes with a recording rate of 480 frames per second (NTSC) and features CMS management and DVD writer as standard features. The DVR come with smart thumbnail, and bookmark search capabilities, it is easy to install and operate, and can be connected easily to a SCC-3100A keyboard for advanced control.

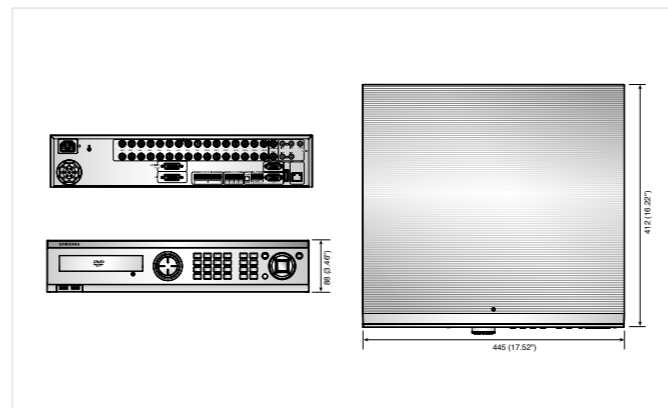


Features

- True real-time 480fps(N), 400fps(P) digital image display
480fps(N), 400fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S/P)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

Dimensions

Unit : mm (inch)



Technical Specifications

SVR-1645	
DISPLAY	
Video	Inputs 16 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 : 704 x 480 / PAL : 704 x 576
	Multi Screen Display 1 / 4 / 9 / 10 / 16
PERFORMANCE	
	Compression MPEG-4
	Record Rate NTSC Up to 120fps@704 x 480 Up to 240fps@704 x 240 Up to 480fps@352 x 240
	PAL Up to 100fps@704 x 576 Up to 200fps@704 x 288 Up to 400fps@352 x 288
Recording	Mode Manual, Schedule, Event, Emergency
	Overwrite 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)
	Transmission Speed Up to 9Mbps
	Bandwidth Control Automatic
Network	Multi Stream N/A
	Max. Remote Users 10 Simultaneously
	Protocol Support TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP
	Monitoring CMS Software (SNM-128S/P), Built-in web server
	Maximum Capacity Up to 8TB using external storage option
	Internal HDD Up to 2 SATA HDDs
Storage	External HDD Up to 1 expansion bay
	DVD Writer (Back up) DVD-R / CD-R
	USB (Back up) 2 External USB ports
	File Format (Back up) BMP, AVI, Proprietary format / JPEG (Exclusive viewer)
Security	Password Protection 10 User level
	Data Authentication Watermark
INTERFACE	
	VGA Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution
Monitors	Main Composite 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback
	Spot Composite 1 BNC, 1 Vp-p, 75 ohm, Single-screen, Menu
	Loop Outputs 16 Composite video 1 Vpp, 75 ohm
	Inputs 16 Line in, 30K ohm
Audio	Output 1 Line, 100K ohm
	Compression ADPCM
	Sampling Rate 16KHz
	Inputs Terminal 16 inputs, NO/NC
Alarm	Outputs Terminal 4 relay outputs, NO/NC
	Remote Notification Notification via e-mail
	Ethernet RJ-45 10/100 Base-T
	Serial Interface RS-232C
	PTZ Control Interface RS-485/422
Connections	PTZ Keyboard RS-485, Max. signal voltage ±12V
	USB USB 2.0
	eSATA 1 External SATA port
	Application Support ATM/POS, Mouse, Remote controller
	Supported PTZ Cameras Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC
GENERAL	
Electrical	Input Voltage 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging
	Power Consumption Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD)
Environmental	Operating Temperature +5°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity 0% ~ 60%RH
	Dimensions (WxHxD) 445 x 88 x 412mm (17.52" x 3.46" x 16.22")
Mechanical	Weight (2X Hard Disks) Approx. 8.6Kg (18.96 lb)
	Rack Mount Kit For mounting one unit in an EIA 19 inch rack
Language	English, Korean, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)

SVR-960

9 Channel DVR



Overview

The SVR-960 offers 9 channels of high resolution video real-time recording capability and powerful integrated network management of an unlimited number of DVRs. It comes with smart thumbnail, and bookmark search capabilities, fast DVD back up and easy control with intuitive GUI and mouse interface.



Features

- True real-time 270fps(N), 225fps(P) digital image display
270fps(N), 225fps(P) digital video recording
- MPEG-4 Compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S/P)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- 3 Multi-monitor
 - Built-in web server
- RS-232C, RS-485/422
 - Pan / Tilt / Zoom support (Multi-protocol)
- 9 Channels audio recording

Emergency recording mode

Regular, event or schedule recording and event recordings 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.

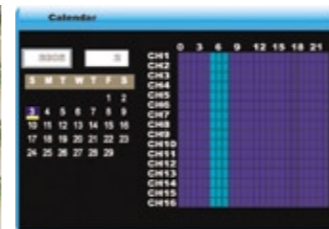


Various quick & easy search modes

- **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, they 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

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 back up with front USB ports are also provided.



DVD Writer



Front USB port

System controller

Using the SCC-3100A system controller integrated control of up to 255 DVR and PTZ 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

SVR-960

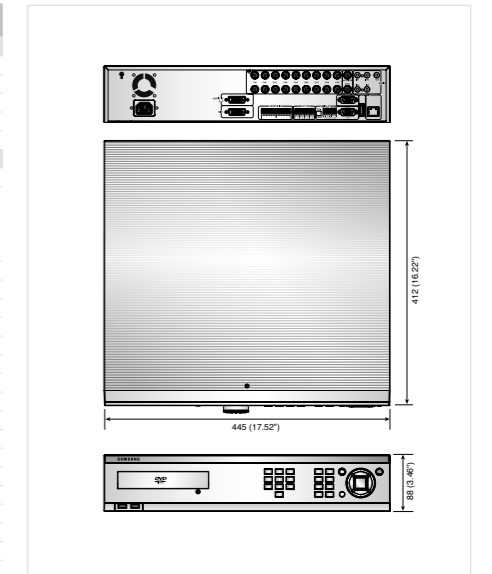
9 Channel DVR

Technical Specifications

		SVR-960	
DISPLAY			
Video	Inputs	9 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Frame Rate	NTSC : 270fps / PAL : 225fps	
	Live Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
Live	Multi Screen Display	1 / 4 / 9	
	PERFORMANCE		
Recording	Compression	MPEG-4	
	Record Rate	NTSC	PAL
		Up to 120fps@704 x 480	Up to 100fps@704 x 576
		Up to 240fps@704 x 240	Up to 200fps@704 x 288
	Mode	Up to 270fps@352 x 240	Up to 225fps@352 x 288
		Manual, Schedule, Event, Emergency	
		Overwrite modes	Continuous
		Pre-alarm	Up to 5sec
	Search & Playback	Post-alarm	Up to 60sec
		Search Mode	Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer)
Playback Function		REW, FWD, Frame advance (Control keys)	
Network	Transmission Speed	Up to 9Mbps	
	Bandwidth Control	Automatic	
	Multi Stream	N/A	
	Max. Remote Users	10 Simultaneously	
Storage	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP	
	Monitoring	CMS Software (SNM-128S/P), Built-in web server	
	Maximum Capacity	Up to 8TB using external storage option	
	Internal HDD	Up to 2 SATA HDDs	
Security	External HDD	Up to 1 expansion bay	
	DVD Writer (Back up)	DVD-R / CD-R	
	USB (Back up)	2 External USB ports	
INTERFACE	File Format (Back up)	BMP, AVI, Proprietary format / JPEG (Exclusive viewer)	
	Password Protection	10 User level	
	Data Authentication	Watermark	
Monitors	VGA	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	
	Spot Composite	1 BNC, 1 Vp-p, 75 ohm, Analog spot	
Audio	Loop Outputs	9 Composite video 1 Vpp, 75 ohm	
	Inputs	9 Line in, 30K ohm	
	Output	1 Line, 100K ohm	
Alarm	Compression	ADPCM	
	Sampling Rate	16KHz	
	Inputs	Terminal 9 inputs, NO/NC	
Connections	Outputs	Terminal 4 relay outputs, NO/NC	
	Remote Notification	Notification via e-mail	
	Ethernet	RJ-45 10/100 Base-T	
Dome Protocols	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
GENERAL	USB	USB 2.0	
	eSATA	1 External SATA port	
	Application Support	ATM/POS, Mouse, Remote controller	
Electrical	Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC	
	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
	Power Consumption	Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD)	
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	0% ~ 60%RH	
	Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")	
Mechanical	Weight (2X Hard Disks)	Approx. 8.6Kg (18.96 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack	
	Language	English, Korean, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)		

Dimensions

Unit : mm (inch)



Accessories

HDD Extension Unit SVS-5E



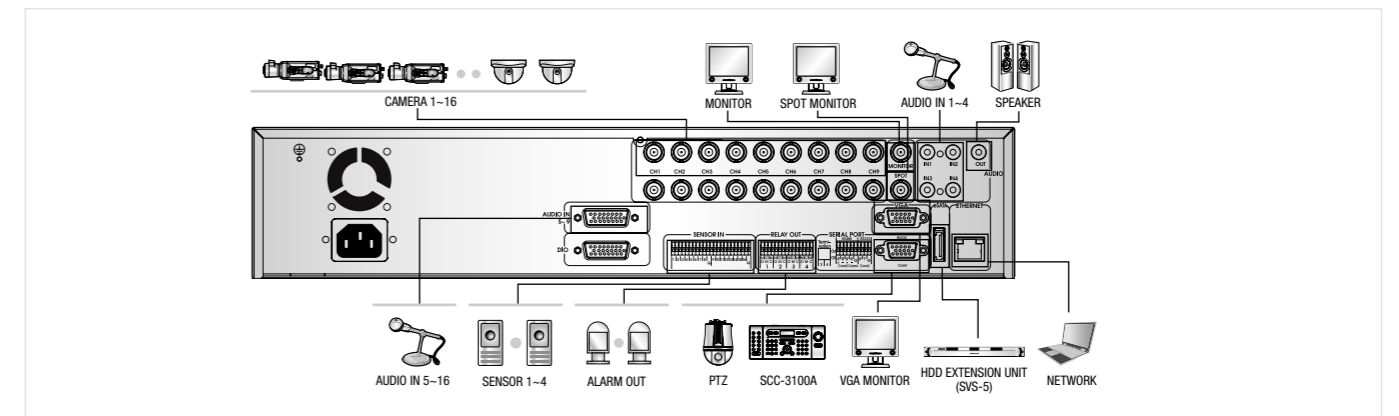
* See page 80 for more details.

Optional Controller



SCC-3100A

System Configuration



SVR-945

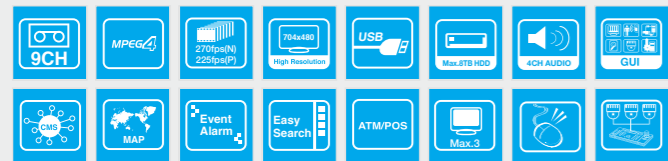
9 Channel Compact DVR

SAMSUNG TECHWIN SAMSUNG



Overview

The SVR-945 is a compact and affordably priced 9 channel DVR that can record high quality images in real time with highly efficient advanced MPEG-4 compression. It is equipped with a wide range of smart functions for user convenience and system reliability such as thumbnail search modes, ATM/POS text recording, and easy control with intuitive GUI and mouse interfaces. Designed as a compact yet feature-rich solutions, it can easily and conveniently be installed in virtually any location.

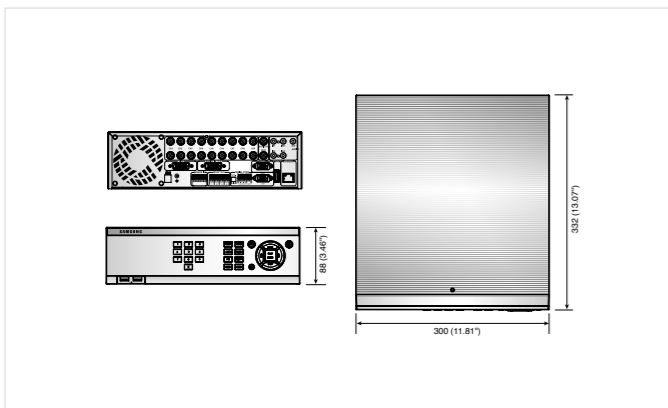


Features

- True real-time 270fps(N), 225fps(P) digital image display
270fps(N), 225fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SNM-128S)
- Convenient control with a remote controller and a mouse
- OSD (Multi-language)
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- 3 Multi-monitor
 - Built-in web server
- RS-232C, RS-485/422
 - Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording
- Compact design

Dimensions

Unit : mm (inch)



Technical Specifications

		SVR-945	
DISPLAY			
Video	Inputs	9 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Frame Rate	NTSC : 270fps / PAL : 225fps	
Live	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Multi Screen Display	1 / 4 / 9	
PERFORMANCE			
Recording	Compression	MPEG-4	
	Record Rate	NTSC	PAL
		Up to 120fps@704 x 480 Up to 240fps@704 x 240 Up to 270fps@352 x 240	Up to 100fps@704 x 576 Up to 200fps@704 x 288 Up to 225fps@352 x 288
Mode	Manual, Schedule, Event, Emergency		
	Overwrite modes	Continuous	
	Pre-alarm	Up to 5sec	
Post-alarm	Up to 60sec		
	Search Mode	Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer)	
Search & Playback	Playback Function	REW, FWD, Frame advance (Control keys)	
	Transmission Speed	Up to 9Mbps	
	Bandwidth Control	Automatic	
Network	Multi Stream	N/A	
	Max. Remote Users	10 Simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP	
Monitoring	CMS Software	CMS Software (SNM-128S/P), Built-in web server	
	Maximum Capacity	Up to 8TB using external storage option	
	Internal HDD	Up to 2 SATA HDDs	
Storage	External HDD	Up to 1 expansion bay	
	DVD Writer (Back up)	N/A	
	USB (Back up)	2 External USB ports	
File Format (Back up)	BMP, AVI, Proprietary format / JPEG (Exclusive viewer)		
	Security	10 User level	
Data Authentication	Watermark		
INTERFACE			
Monitors	VGA	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	
	Spot Composite	1 BNC, 1 Vp-p, 75 ohm, Analog spot	
Loop Outputs	9 Composite video 1 Vpp, 75 ohm		
	Inputs	9 Line in, 30K ohm	
Audio	Output	1 Line, 100K ohm	
	Compression	ADPCM	
Sampling Rate	16KHz		
Alarm	Inputs	Terminal 9 inputs, NO/NC	
	Outputs	Terminal 4 relay outputs, NO/NC	
Remote Notification	Notification via e-mail		
Ethernet	RJ-45 10/100 Base-T		
	Serial Interface	RS-232C	
PTZ Control Interface	RS-485/422		
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
eSATA	1 External SATA port		
Application Support	ATM/POS, Mouse, Remote controller		
Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC		
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
Power Consumption	Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD)		
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
Operating Humidity	0% ~ 60%RH		
Dimensions (WxHxD)	300 x 88 x 332mm (11.82" x 3.46" x 13.07")		
Mechanical	Weight	Approx. 5Kg (11.02 lb)	
Rack Mount Kit	For mounting one unit in an EIA 19 inch rack		
Language	English, Korean		
Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese			
Certifications	FCC (Class A), CE (Class A)		

SVR-940

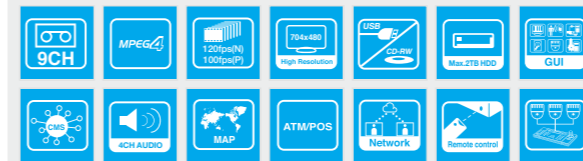
9 Channel DVR

SAMSUNG TECHWIN SAMSUNG



Overview

The SVR-940 is a 9 channel digital video recorder that offers high resolution real-time display and recording performance. It comes with an array of features including flexible back up via internal CD-RW and USB port, multi-language OSD, remote controller, and easy PTZ control with front panel buttons.

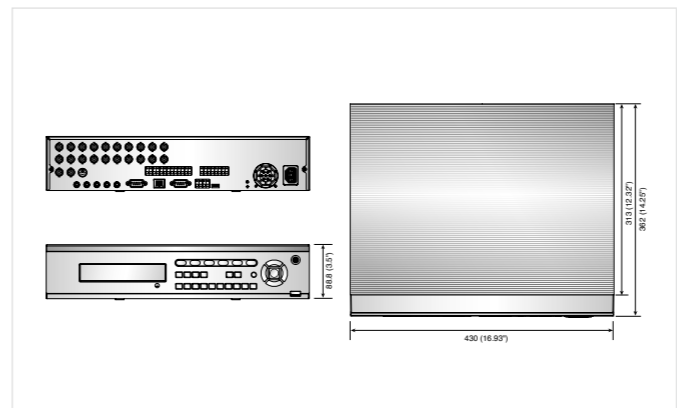


Features

- True real-time 270fps(N), 225fps(P) digital image display
120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal HDDs
- Front panel USB port for easy back up
- CD writer is included as standard
- ATM/POS transaction data recording and search
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- OSD (Multi-language)
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

Dimensions

Unit : mm



Technical Specifications

		SVR-940	
DISPLAY			
Video	Inputs	9 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Frame Rate	NTSC : 270fps / PAL : 225fps	
Live	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Multi Screen Display	1 / 4 / 9	
PERFORMANCE			
Recording	Compression	MPEG-4	
	Record Rate	NTSC	PAL
		Up to 30fps@704 x 480 Up to 60fps@704 x 240 Up to 120fps@352 x 240	Up to 25fps@704 x 576 Up to 50fps@704 x 288 Up to 100fps@352 x 288
Mode	Manual, Schedule, Event		
	Overwrite modes	Continuous	
	Pre-alarm	Up to 3sec	
Post-alarm	Up to 20sec		
	Search Mode	Date/Time, Event (Motion, Sensor, TEXT)	
Search & Playback	Playback Function	REW, FWD, Frame advance	
	Transmission Speed	Up to 16Mbps	
	Bandwidth Control	On / Off selection	
Network	Multi Stream	N/A	
	Max. Remote Users	4 Simultaneously	
	Protocol Support	TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE	
Monitoring	CMS Software (SNM-64S/P), Web viewer		
Storage	Maximum Capacity	2TB	
	Internal HDD	Up to 2 PATA HDDs	
	External HDD	N/A	
DVD Writer (Back up)	CD-R		
USB (Back up)	1 External USB port		
File Format (Back up)	AVI, JPEG		
Security	Password Protection	4 User level	
Data Authentication	N/A		
INTERFACE			
Monitors	VGA	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Spot Composite	1 BNC, 1 Vp-p, 75 ohm, Single	
Loop Outputs	9 Composite video 1 Vpp, 75 ohm		
	Inputs	4 Line in, 30K ohm	
Audio	Output	1 Line, 100K ohm	
	Compression	ADPCM	
Sampling Rate	16KHz		
Alarm	Inputs	Terminal 9 inputs, NO/NC	
	Outputs	Terminal 4 relay outputs	
Remote Notification	Notification via e-mail		
Ethernet	RJ-45 10/100 Base-T		
	Serial Interface	RS-232C	
PTZ Control Interface	RS-485/422		
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
eSATA	N/A		
Application Support	ATM/POS, Remote controller		
Supported PTZ Cameras	Samsung Techwin, SEC, Pelco D, Pelco P, SRX, VICON, CNB, SONY		
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
Power Consumption	Max. 60W (With 1X HDD) / Max. 75W (With 2X HDD)		
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
Operating Humidity	0% ~ 60%RH		
Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93" x 3.5" x 14.25")		
Mechanical	Weight (4X Hard Disks)	Approx. 8.9Kg (19.62 lb)	
Rack Mount Kit	For mounting one unit in an EIA 19 inch rack		
Language	English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean		
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)		

SVR-450

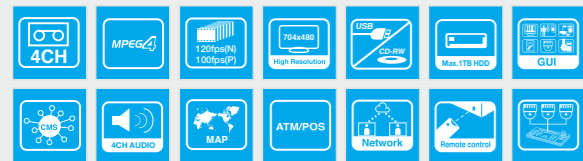
4 Channel DVR

SAMSUNG TECHWIN



Overview

The SVR-450 is a 4 channel digital video recorder designed to be used as the security device in small shops, convenience stores, banks, ATMs, etc. It uses an embedded operating system, securing system performance and safety. It can record up to 120 frames per second and provides various features such as motion detection, PTZ (Pan, Tilt and Zoom) control, password setting, real-time voice data storage, and up to 10,000 event lists and log file storage.

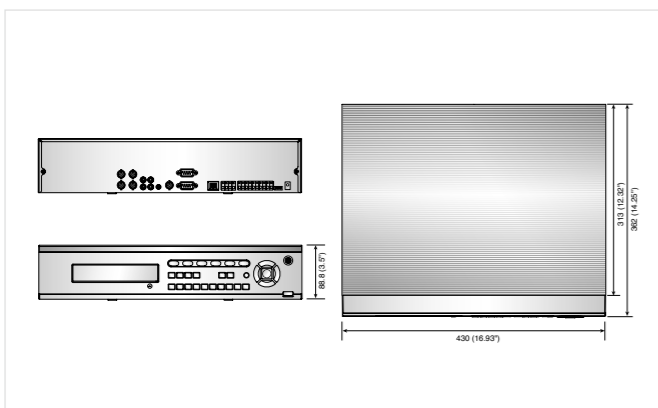


Features

- True real-time 120fps(N), 100fps(P) digital image display
120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 1 Internal HDD
- Front panel USB port for easy back up
- CD writer is included as standard
- ATM/POS transaction data recording and search
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- OSD (Multi-language)
- 10/100 base-T network interface capability
- RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

Dimensions

Unit : mm



Technical Specifications

		SVR-450	
DISPLAY			
Video	Inputs	4 Composite video 1 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Frame Rate	NTSC : 120fps / PAL : 100fps	
Live	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Multi Screen Display	1 / 4	
PERFORMANCE			
Recording	Compression	MPEG-4	
	Record Rate	NTSC Up to 30fps@704 x 480 Up to 120fps@352 x 240	PAL Up to 25fps@704 x 576 Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
Search & Playback	Overwrite modes	Continuous	
	Pre-alarm	Up to 3sec	
	Post-alarm	Up to 20sec	
Network	Search Mode	Date/Time, Event (Motion, Sensor, TEXT)	
	Playback Function	REW, FWD, Frame advance	
	Transmission Speed	Up to 16Mbps	
Storage	Bandwidth Control	On / Off selection	
	Multi Stream	N/A	
	Max. Remote Users	4 Simultaneously	
Security	Protocol Support	TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE	
	Monitoring	CMS Software (SNM-64S/P), Web viewer	
	Maximum Capacity	1TB	
Interface	Internal HDD	Up to 1 PATA HDD	
	External HDD	N/A	
	DVD Writer (Back up)	CD-R	
Monitors	USB (Back up)	1 External USB port	
	File Format (Back up)	AVI, JPEG	
	Password Protection	4 User level	
Audio	Data Authentication	N/A	
	Inputs	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
Alarm	Spot Composite	N/A	
	Loop Outputs	N/A	
	Inputs	4 Line in, 30K ohm	
Connections	Output	1 Line, 100K ohm	
	Compression	ADPCM	
	Sampling Rate	16KHz	
Dome Protocols	Inputs	Terminal 4 inputs, NO/NC	
	Outputs	Terminal 1 relay outputs	
	Remote Notification	Notification via e-mail	
GENERAL	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
Electrical	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	N/A	
Environmental	Application Support	ATM/POS, Remote controller	
	Supported PTZ Cameras	Samsung Techwin, SEC, Pelco D, Pelco P, SRX, VICON, CNB, SONY	
	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
Mechanical	Power Consumption	Max. 60W (With 1X HDD) / Max. 75W (With 2X HDD)	
	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	0% ~ 60%RH	
Language	Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93" x 3.5" x 14.25")	
	Weight (4X Hard Disks)	Approx. 8.9Kg (19.62 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack	
Certifications	English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean		
	FCC (Class A), CE (Class A)		

SVR-440

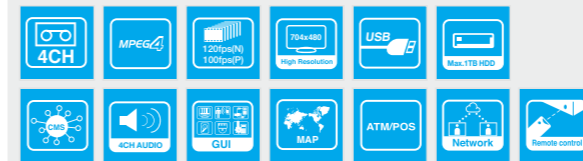
4 Channel Compact DVR

SAMSUNG TECHWIN



Overview

The SVR-440 is an ideal solution for applications that require a simple, low cost, and easy-to-use DVR. It uses an embedded operating system and is quick and easy to install and configure. Unlike other low cost solutions, the SVR-440 offers great picture quality and features like 4 channels of audio recording.

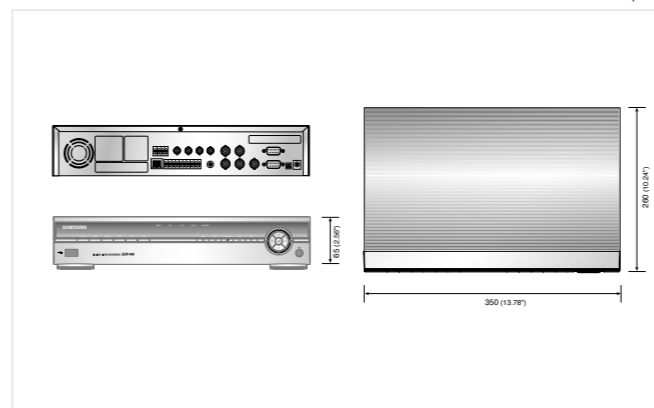


Features

- True real-time 120fps(N), 100fps(P) digital image display
120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
[704 x 576, 704 x 288, 352 x 288(P)]
- 160GB 1 HDD internal capacity
- Front panel USB port for easy back up
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- Compact size and refined appearance
- OSD (Multi-language)
- 10/100 base-T network interface capability
- RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

Dimensions

Unit : mm (inch)



Technical Specifications

		SVR-440	
DISPLAY			
Video	Inputs	4 Composite video 1 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Frame Rate	NTSC : 120fps / PAL : 100fps	
Live	Resolution	NTSC : 704 x 480 / PAL : 704 x 576	
	Multi Screen Display	1 / 4	
PERFORMANCE			
Recording	Compression	MPEG-4	
	Record Rate	NTSC Up to 30fps@704 x 480 Up to 120fps@352 x 240	PAL Up to 25fps@704 x 576 Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
Search & Playback	Overwrite modes	Continuous	
	Pre-alarm	Up to 5sec	
	Post-alarm	Up to 60sec	
Network	Search Mode	Date/Time, Event (Motion, Sensor)	
	Playback Function	REW, FWD, Frame advance	
	Transmission Speed	Up to 16Mbps	
Storage	Bandwidth Control	N/A	
	Multi Stream	N/A	
	Max. Remote Users	4 Simultaneously	
Security	Protocol Support	TCP/IP, DHCP, PPPoE	
	Monitoring	Network Viewer 440	
	Maximum Capacity	1TB	
Interface	Internal HDD	Up to 1 PATA HDD	
	External HDD	N/A	
	DVD Writer (Back up)	N/A	
Monitors	USB (Back up)	1 External USB port	
	File Format (Back up)	AVI, JPEG	
	Password Protection	1 User	
Audio	Data Authentication	N/A	
	Inputs	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
Alarm	Spot Composite	N/A	
	Loop Outputs	N/A	
	Inputs	4 Line in, 30K ohm	
Connections	Output	1 Line, 100K ohm	
	Compression	ADPCM	
	Sampling Rate	16KHz	
Dome Protocols	Inputs	Terminal 4 inputs, NO/NC	
	Outputs	Terminal 1 relay outputs	
	Remote Notification	Notification via e-mail	
GENERAL	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	N/A	
	PTZ Control Interface	RS-485/422	
Electrical	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	N/A	
Environmental	Application Support	ATM/POS, Remote controller	
	Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch	
	Input Voltage	12V DC Adapter	
Mechanical	Power Consumption	Max. 25W (With 1X HDD)	
	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)	
	Operating Humidity	0% ~ 80%RH	
Language	Dimensions (WxHxD)	350 x 65 x 260mm (13.78" x 2.56" x 10.24")	
	Weight (4X Hard Disks)	Approx. 3.2Kg (7.05 lb)	
	Rack Mount Kit	N/A	
Certifications	English, Korean		
	FCC (Class B), CE (Class A)		



SVS-5R/5E

RAID 5 Unit / HDD Extension Unit



NEW

Overview

The SVS-5R/5E external hard drive offers extra data storage exclusively for DVRs. Designed as a 19-inch rack mount unit, it can be mounted in a cabinet along with DVR units. With SATA II it supports a maximum speed of 3.0Gbps to save and play video. The SVS-5R supports RAID configurations to protect data from disk damage and improve performance by distributing data evenly over two or more disks.



Features

SVS-5R

- 1U 19-inch rack case
- Data transfer speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD : Up to 4 (4TB)
- Supports RAID 0, 1, 0+1, 5
- Hot-Swappable Disk Drive Bays
- Front LCD for RAID status display
- USB port for RAID settings
- Alarm for errors

SVS-5E

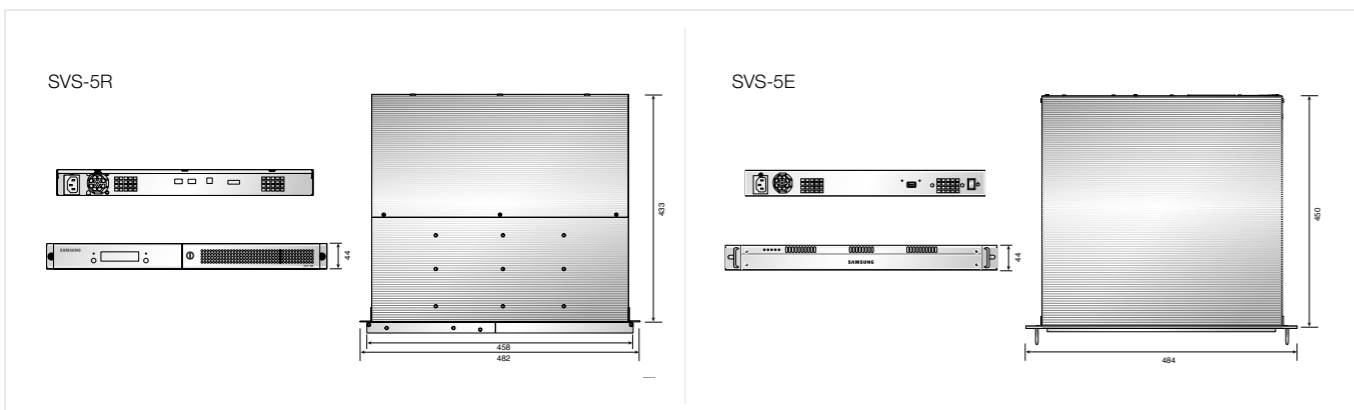
- 1U 19-inch rack case
- Data transfer speed : Up to 3.0Gbps (SATA II)
- Available STA HDD : Up to 4 (4TB)
- Expandable for more storage

Technical Specifications

	SVS-5R	SVS-5E
Transmission Speed	Up to 3.0Gbps (SATA II)	
Maximum Capacity	Up to 4TB	
Internal HDD	Up to 4 SATA HDDs (Support Hot-Swap function)	Up to 4 SATA HDDs
RAID	RAID 0, 1, 0+1, 5	N/A
eSATA	1 External SATA ports for DVR connection	
USB	USB 2.0, RAID configuration only	N/A
Operating Temperature	+5°C ~ +45°C (+41°F ~ +113°F)	
Operating Humidity	20%RH ~ 70%RH	
Input Voltage	115 ~ 230V AC ±10%, 50/60 Hz, Autoranging	
Dimensions (WxHxD)	482 x 44 x 433mm (19" x 1.7" x 17")	484 x 44 x 450mm (19.1" x 1.7" x 17.7")
Weight (4X hard disks)	Approx. 6.4Kg (14.1 lb)	Approx. 5.6Kg (12.3 lb)
Rack mount kit	For mounting one unit in an EIA 19-inch rack	
Supported Devices	SVR-3200/1680/1660/1645/960/945	
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)	

Dimensions

Unit : mm



Your source for Professional Video Security Solutions

NETWORK
Samsung Digital Security Systems

SAMSUNG TECHWIN SAMSUNG



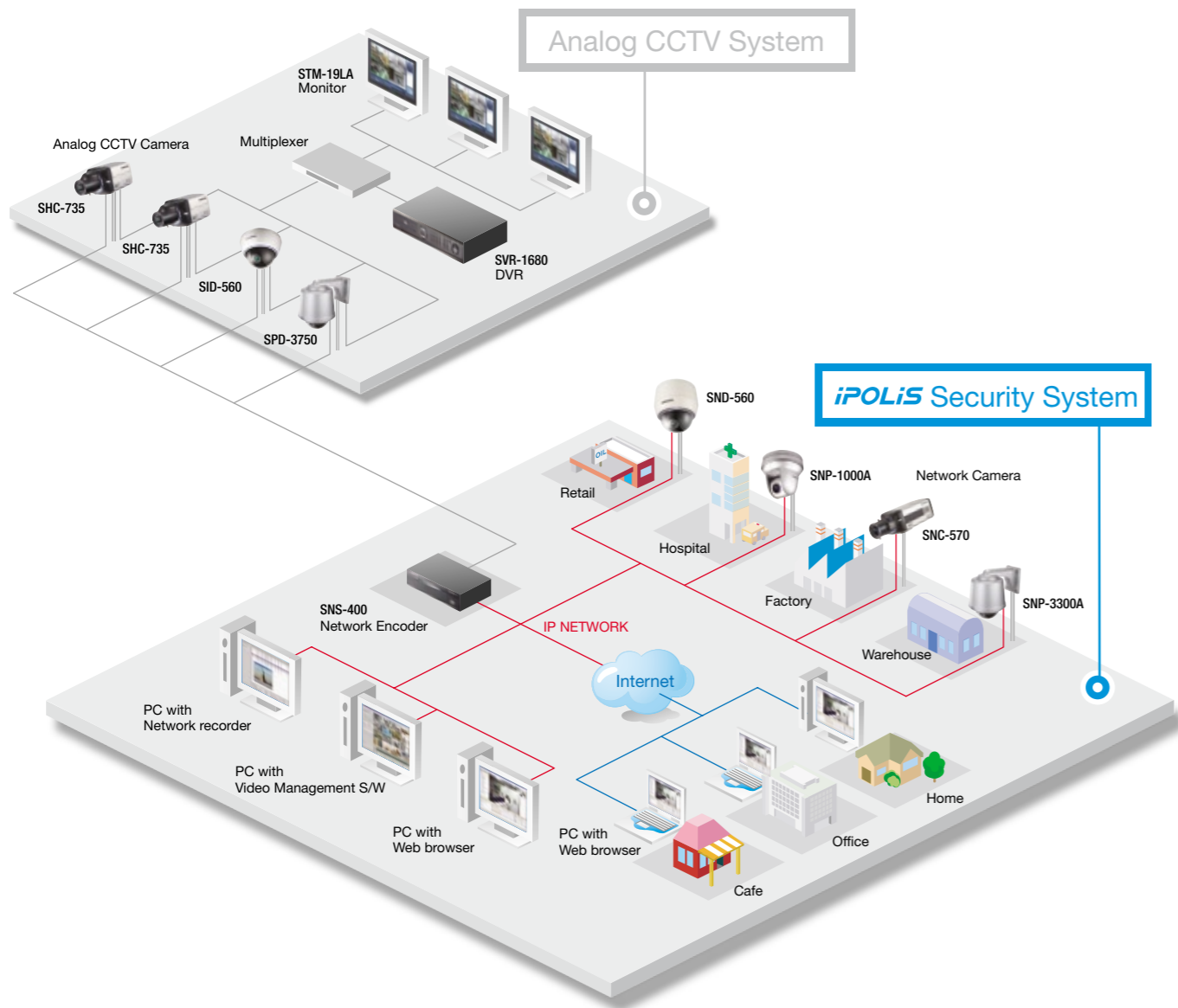
NETWORK SOLUTION

iPOLiS - High Image Quality Network Security Solution

Clear Imaging!
Real Time!
Easy Control!



Samsung Techwin's innovative IP based video security products offer convenient solutions for remote applications. iPOLiS security solutions deliver real time audio/video monitoring directly to your web browser. With high-performance MPEG-4/JPEG compression, bi-directional audio, and choices of network protocols, iPOLiS conveniently secures your site. It is also very easy for users to assign an IP address, or connect the camera to the network.



NETWORK SELECTION

	NETWORK VIDEO ENCODER		NETWORK CAMERA				
	SNS-400	SNS-100	SNC-570	SNC-550	SND-560	SNP-3300A	SNP-1000A
	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i>
Hardware OS	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
Codec	MPEG-4/JPEG compression	MPEG-4/JPEG compression	MPEG-4/JPEG full dual codec	MPEG-4/JPEG compression	MPEG-4/JPEG full dual codec	MPEG-4/JPEG compression	MPEG-4/JPEG compression
Audio	4/1, 1CH Bi-direction	1/1, 1CH Bi-direction	1/1, 1CH Bi-direction	1/1, 1CH Bi-direction	1/1, 1CH Bi-direction	1/1, 1CH Bi-direction	1/1, 1CH Bi-direction
Camera / Video	4 Input / 1 Output	1 Input / 1 Output	1 Output	1 Output	1 Output	1 Output	1 Output
Image Resolution	704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P)	704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P)	704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P)	704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P)	704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P)	704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P)	704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P)
Frame Rate	CIF 120fps (N) / CIF 100fps (P)	VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)
Video Features	1 or 4CH Sequence, Full screen Time / Date / Title display	1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display
Network Protocol	TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP	TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP	RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP	TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP	RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP	TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP	TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP
Network Interface	Ethernet (10/100M)	Ethernet (10/100M)	Ethernet (10/100M)	Ethernet (10/100M)	Ethernet (10/100M)	Ethernet (10/100M)	Ethernet (10/100M)
Data Interface	RS-232C/422/485	RS-232C/422/485	RS-485	RS-485	RS-485	N/A	N/A
Alarm In / Out	4 / 4	2 / 2	1 / 1	1 / 1	1 / 1	4 / 2	2 / 1
Notification	Motion detection	Motion detection	Object detection Motion detection	Motion detection	Object detection Motion detection	Area zoom Motion detection	Area zoom Motion detection
Alarm Image Transfer	FTP, E-mail	FTP, E-mail	FTP, E-mail	FTP, E-mail	FTP, E-mail	FTP, E-mail	FTP, E-mail
Management	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)	Network Manager (SNM-64S/P, SNM-128S/P)
Event Storage	USB	USB	SD memory card	N/A	SD memory card	N/A	N/A
Web Server	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Web Browser	IE 5.5 or higher	IE 5.5 or higher	IE 5.5 or higher	IE 5.5 or higher	IE 5.5 or higher	IE 5.5 or higher	IE 5.5 or higher

	CENTRALIZED VIDEO MANAGEMENT SOFTWARE		NETWORK RECORDING SOFTWARE
	SNM-128P	SNM-64P	SNR-32A/16A/9A
	<i>iPOLiS</i> 	<i>iPOLiS</i> 	<i>iPOLiS</i>
Features	<ul style="list-style-type: none"> Up to 128 channels real-time live monitoring Support up to 6 VGA output Register unlimited devices and control up to 128 stream simultaneously PTZ, Bi-directional audio, Sensor / Relay 	<ul style="list-style-type: none"> Up to 128 channels real-time live monitoring Support up to 3 VGA output Register unlimited devices and control up to 128 stream simultaneously PTZ, Bi-directional audio, Sensor / Relay 	<ul style="list-style-type: none"> Record up to 32 audio / video streams Record up to 480fps at CIF resolution Record up to full D1 resolution Ability to view live display and play back recorded video on single channel



NETWORK TERMS & FEATURES

Real-time surveillance over the Internet at any time...

Samsung Techwin's innovative network products are perfect and convenient solutions for remote surveillance over the internet. The network units utilize the most efficient video compression technology for faster transmission and high quality images. Now you can enjoy real images and video streams in real time from anywhere through the web at any time. There is no need for PC or any additional devices. Wherever there is an LAN connection and modem, you can keep an eye on the site. Assigning an IP address and connecting the camera to the network is very easy.

Infinite uses for business applications !

The network products are equipped with a built-in operating system based on the high performance web server, so that you can put the camera directly on the internet. They can be used easily for remote surveillance, video conferencing, personal website hosting, small business website hosing, real time video on your website, video chatting and more. These consist of network servers and network cameras. They can be installed onto the Internet or local networks within minutes. Furthermore vivid and high quality video can be enjoyed by up to 100 simultaneous users. It also has 4.5MB of configurable flash memory, FTP function for image archiving, and supports two way audio. And they can be easily integrated into your current security systems. The advanced MPEG-4 image compression technology provides clear pictures that are up to 300% smaller than comparable JPEG images. The following are the main features of the Samsung's network units. They uses MPEG-4 or JPEG codec technology to allow high compression rates and clear picture quality by allowing for high frame rates to be transmitted and are designed for easy installation and set-up, maintenance and repair. The products also transmit real-time video and Bi-direction audio, allows for users to record and play using any viewer on their PC. Motion Detection creates connection on an alarm, and allows captured images to be sent through email or FTP. Furthermore, they support NTSC and PAL cameras, and allow for multiple video sizes or picture options for the applicable models.

MPEG-4/JPEG compression support

With the selective application of MPEG-4 and JPEG compression formats, the best image quality can be provided flexibly, depending on the available transmission bandwidth.

Open standards environment

Supporting TCP/IP networking, SMTP e-mail, HTTP and other Internet-related protocols : the network products can be used in mixed operating system environments, such as, Windows. It integrates easily into other www.Intranet applications and CGI scripts.

Embedded Linux operating system

Network product adopt cutting-edge technologies of digital image processing & networking. Network products incorporate a high performance CPU (32bit RISC), running embedded Linux, it allows for more than 100 users to be connected to the network products simultaneously.

Simple administration

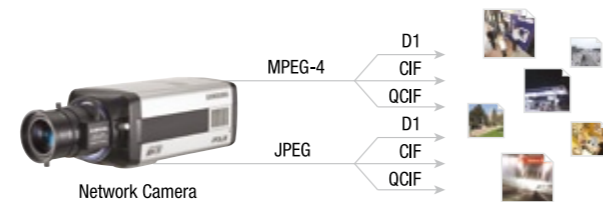
Using a standard Web browser, you can configure and manage Web-product directly from its own Web pages. When a new firmware release becomes available, you can simply upgrade all of your network products remotely over the network.

RJ-45

The RJ-45 connector is commonly used for network cabling and for telephone applications. It's also used for serial connections in special cases.

Multi-stream support for real-time monitoring

The SNC-570 uses the Dual Codec (MPEG-4, JPEG) and the Transcoder techniques, all 6 streams are transferred simultaneously and independently. Using such techniques, each client may receive or play 6 individual streams according to their particular choice or as a whole.



Dual stream

Dual stream supports MPEG-4 and JPEG dual output for simultaneous live monitoring and high resolution recording, which reduces bandwidth demands for low bandwidth users and allows more information to be transmitted over the network than single-streaming products.



NETWORK TERMS & FEATURES

Real-time transmission of VGA High-resolution images at 30fps

iPoLis network products can transmit distortion free images in all resolution and VGA high resolution images at up to 30fps.



CMS integrated management (Samsung Network Manager)

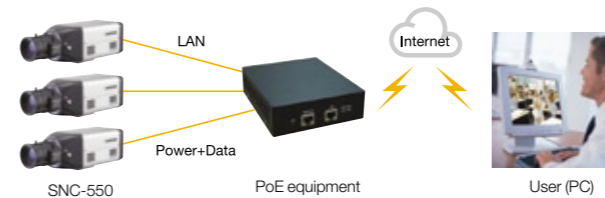
iPoLis network products support the CMS for integrated network management. The Samsung Network Manager is a powerful centralized management solution that monitors multiple sites with video, audio and alarm signals over the network. It can monitor up to 128 channels from anywhere in the world at the same time. The users can check the event with more ease via enhanced event/alarm functions such as List, Map, Beeper, Live Image, and Tree modes. It also supports enhanced map viewer for smart network monitoring and convenient search by thumbnail, event, or text category.



- Convenient Centralized Management for DVR, Network product
- Max. 128 Channel Simultaneous Realtime Monitoring
- Various Event Control using event exclusive panel
- Instant Playback with Thumbnail / Calendar / Timeline / Text search
- Easy Monitoring with Graphic MAP Viewer

PoE (Power over Ethernet) support

Since power is supplied through the LAN cables, there will be less complicated cabling and the installation cost will be substantially reduced (IEEE 802.3af).



SDK support

iPoLis products provide the Samsung Techwin SDK that allows for 3rd party engineers to develop further programs or functions. It contains various functions such as single/multi live monitoring, DVR recording date playback, DVR recording date back up, configuration control, and discovery.

Real-time surveillance with Web viewer

With the support of the Web viewer that can be connected through the Internet, the user can monitor sites anytime, anywhere.



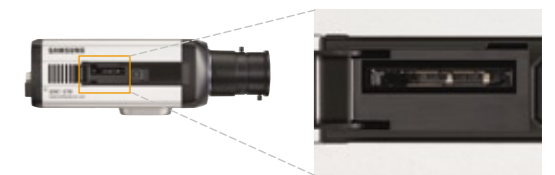
Dynamic IP registration and DDNS support

Even inexperienced users can easily configure network settings and get a domain name by connecting to www.samsungipolis.com, as a stable Dynamic IP is provided.



SD memory card slot

The SNC-570, SND-560 are compatible with SD memory cards allowing users to use a SD memory card as local storage to store all the events that occurred, or used as a back-up. This allows the user to playback all the events using Samsung Network Manager even if the software network recorder is not available.



Network protocol

A protocol is a set of rules or agreed upon guidelines for communication. These protocols have been established by international standards bodies and are used in almost all platforms and around the globe to ensure that all devices on the Internet can communicate successfully. The iPoLis products support a wide variety of protocols : RTP/UDP, RTP/MULTICAST, RTSP, HTTP, TCP/IP, FTP, SMTP, DHCP, DNS, DDNS.

SNS-400/100

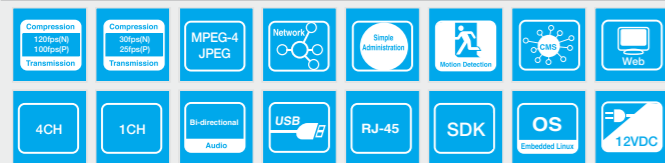
4 / 1 Channel Network Video Encoder

Overview

The SNS-400/100 MPEG-4/JPEG network video encoder connects 4/1 analogue CCTV video camera to an IP network. The new server is both MPEG-4 and JPEG compatible. MPEG-4 makes viewing video smooth and seamless and when using JPEG images can be transmitted at up to 120fps(N) / 100fps(P), 30fps(N) / 25fps(P). The video encoder uses an embedded linux operating system to take your video signal and broadcast it over any of the supported protocols, including TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS. Plus, the unit is easy to setup and control through an available RS-485 port.



iPOLiS

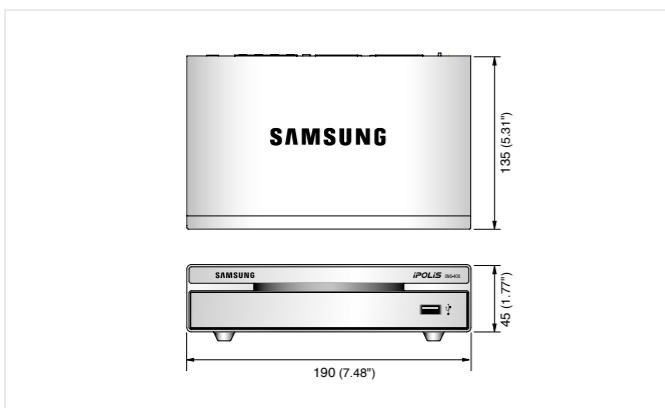


Features

- Real-time MPEG-4/JPEG compression
- Max. CIF 120fps(N) / Max. CIF 100fps(P) image transmission : SNS-400
Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission : SNS-100
- Bi-directional audio support
- Stored event image with USB memory devices
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
704 x 576, 704 x 288, 352 x 288(P)
- Static / Dynamic IP support
- Remote Pan / Tilt / Zoom control (RS-232C, RS-485/422)
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending
- Network management software (SNM-64S/P, SNM-128S/P)
- 4 sensor input, 4 alarm output : SNS-400
2 sensor input, 2 alarm output : SNS-100
- Voltage : 12V DC

Dimensions

Unit : mm



Technical Specifications

	SNS-400	SNS-100		
DISPLAY				
Video Signal	NTSC / PAL			
Resolution	NTSC : Up to 704 x 480 / PAL : Up to 704 x 576			
Inputs	4 BNC	1 BNC		
Outputs	1 BNC	1 BNC		
ENCODING				
Compression	MPEG-4 / JPEG selectable			
Encode Rate	Record Rate	Up to 30fps@704 x 480(N) Up to 30fps@704 x 240(N) Up to 120fps@352 x 240(N) Up to 25fps@704 x 576(P) Up to 50fps@704 x 240(P) Up to 100fps@352 x 240(P)	Up to 30fps@704 x 480(N) Up to 30fps@704 x 240(N) Up to 30fps@352 x 240(N) Up to 25fps@704 x 576(P) Up to 25fps@704 x 240(P) Up to 25fps@352 x 240(P)	
	Security	5 User level	N/A	
	INTERFACE			
	Connections	Ethernet RJ-45 10/100 Base-T PTZ control Interface RS-485/422 Serial Interface RS-232C USB 1 USB 2.0 port for storing events		
	Audio	Inputs 1 Line in, 30K ohm Output 1 Line, 100K ohm Compression ADPCM Sampling Rate 8KHz		
Alarm Handling	Inputs Terminal 4 inputs, NO/NC Outputs Terminal 4 relay outputs, NO/NC Remote Notification Via e-mail or FTP Transmission Speed Up to 100Mbps	Terminal 2 inputs, NO/NC Terminal 2 relay outputs, NO/NC		
Network	Bandwidth Control Automatic Max. Remote Users 20 Simultaneously Protocol Support TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP			
Dome Supported	Samsung Techwin, Pelco D, Pelco P,			
Protocols	PTZ Cameras Panasonic, SEC, SRX			
GENERAL				
Input	Power Input 12V DC 1.5A power supply			
Voltage	Power Consumption Max. 12W	Max. 8W		
Environmental	Operating Temperature	-10°C ~ +50°C (+32°F ~ +104°F)		
	Operating Humidity	30% ~ 80%RH		
Mechanical	Dimensions (WxDxH)	190 x 45 x 135mm (7.48" x 1.8" x 5.3")		
	Weight	Approx. 850g (1.87 lb)	Approx. 770g (1.7 lb)	
Certifications	FCC (Class A), CE (Class A)			

SNC-570

1/3" High Performance WDR Network Camera

Overview

The SNC-570 is the newest edition of Samsung Techwin's network ready feature-rich camera using the latest SV-IV DSP chipset and the advanced network codec chipset allowing for high quality images and multiple network capabilities at the same time. It supports MPEG-4 and JPEG dual codec capability, a de-interlacing feature and a SD memory card slot for event data recording, and back up. It also ensures users enjoy real-time video monitoring in any circumstances with the excellent 2 codec and 6 transcoder streaming solution. The SNC-570 offers both Dual voltage plus Power over Ethernet capability making it easy to install for user.



iPOLiS SV-IV SSNRII

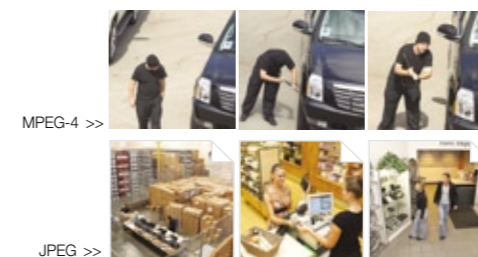


Features

- Real-time MPEG-4/JPEG dual codec
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution image : 704 x 480, 352 x 240, 176 x 120
704 x 576, 352 x 288, 176 x 144
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- Network management software (SNM-64S/P, SNM-128S/P)
- High resolution of 560TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- Powerful 128X WDR function : Max. 52dB
- Min. illumination of 0.3Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.001Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

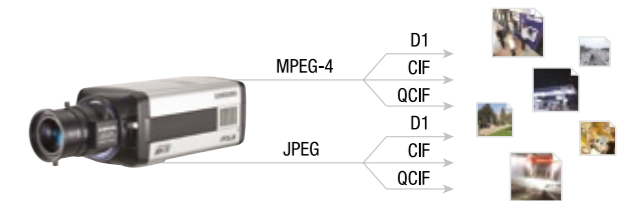
MPEG-4/JPEG Dual codec, full resolution in real-time

The SNC-570 utilizes Samsung Techwin's unique MPEG-4/JPEG dual codec technology that retains high image quality even while compressing at high data rates. With this technology, the SNC-570 delivers full resolution video at 30fps over the network.



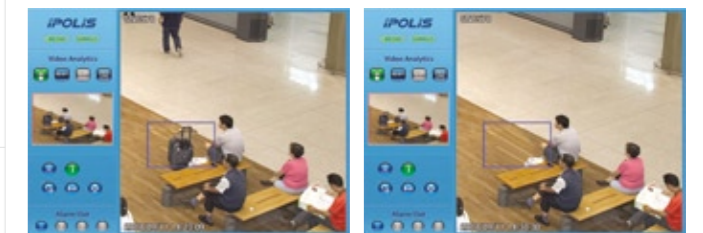
Real-time multi-stream

The SNC-570 can encode 6 different streams (MPEG-4/JPEG in D1, CIF, QCIF) simultaneously in real-time giving users the flexibility to set optimal transmission settings for the network infrastructure.



Intelligent video analytics

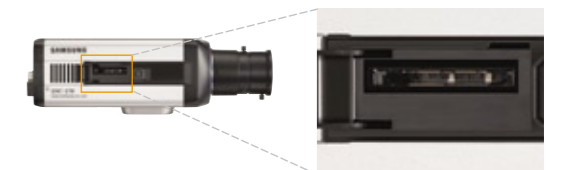
The object detection feature allows users to define an object or area in the scene. When the stationary object is removed, an alarm is triggered. If a stationary object is left in the scene area, an alarm is triggered. These events can be stored locally in an SD memory card or pushed out to the CMS and network recorder.



Disappear Detection

SD memory card slot for local storage

The SNC-570 network camera comes with an internal SD memory card slot that is used to store or back up videos that have been triggered by events.



SNC-570

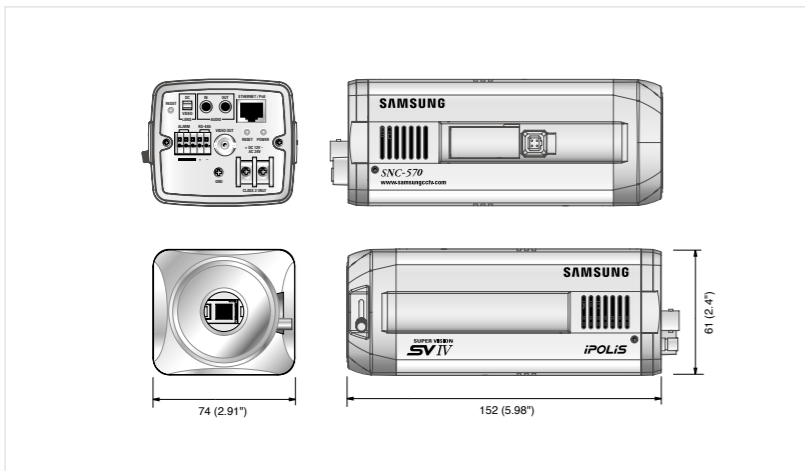
1/3" High Performance WDR Network Camera

Technical Specifications

	SNC-570N	SNC-570P
VIDEO		
Imaging Device	1/3" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Frequency	H : 15.734 KHz / V : 59.94 Hz	H : 15.625 KHz / V : 50Hz
Horizontal Resolution	Color : 560TV lines (Min.), B/W : 700 TV Lines (Min.)	
Min. Illumination	Color : 0.3Lux (50 IRE@F1.2), 0.001Lux (Sens-up, 256X) B/W : 0.01Lux (50 IRE@F1.2)	
S / N (Y signal)	52dB	
On Screen Display	Built-in (Multi-language support)	
Camera Title	On / Off	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	WDR / BLC / HLC / Off	
Dynamic Range	52dB	
Motion Detection	On / Off (Output via communication)	
Digital Image Stabilization	On / Off	
Privacy Masking	On / Off (8 Programmable zones)	
3D Noise Filter (SSNRII)	On / Off (Level adjustable)	
Sens-up (Frame Integration)	Auto / Off (Selectable limit ~ 256X)	
Gain Control	High / Low / Off	
White Balance	ATW / AWC / Manual / Indoor / Outdoor	
Electronic Shutter Speed	Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK	
PERFORMANCE		
Encoding	Resolution	Up to 704 x 480
	Compression	MPEG-4 / JPEG dual codec
	Encode Rate	Up to 30fps@704 x 480
Network	Transmission Speed	Up to 100Mbps
	Max. Remote Users	20 Simultaneously
	Protocol Support	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP
Security	Video Analytics	Object detection (Missing object)
Security	Password Protection	5 User level
INTERFACE		
Monitor	Output	1 BNC (560TV lines)
	Input	1 Line / MIC in, Mono, 1Vpp, 5.6K ohm
Audio	Output	1 Line out, 1Vpp
	Compression	ADPCM
Alarm	Sampling Rate	8KHz
	Inputs	Terminal 1 input, NO/NC
Connections	Outputs	Terminal 1 output, NO/NC
	Remote Notification	Via e-mail or FTP
Storage	Ethernet	RJ-45 10/100 Base-T
	OSD Control Interface	RS-485
Storage	SD(SDHC) Memory	Stored event image, Back up
GENERAL		
Input Voltage	Dual (12V DC/ 24V AC), PoE (IEEE 802.3af)	
Power Consumption	Max. 8.5W	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 80% RH	
Dimension (WxHxD)	74 x 61 x 152mm (2.91" x 2.4" x 5.98")	
Weight	580g (1.28 lb)	
Lens Mount	C / CS	
Certifications	FCC (Class A), UL/cUL listed	CE (Class A)

Dimensions

Unit : mm (inch)



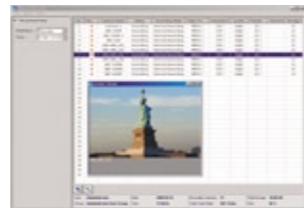
Software

Centralized Video Management Software



SNM-64S/P, SNM-128S/P

Network Recording Software



SNR-32A/16A/9A

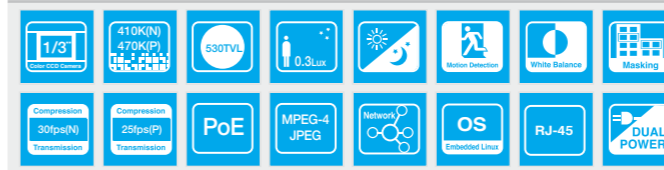
SNC-550

1/3" High Resolution Day & Night Network Camera



Overview

The SNC-550 is a network ready high performance camera using Samsung Techwin's DSP chipset for outstanding image resolution and multiple capabilities. It supports powerful ICR (Infrared Cutoff Filter Removal) Day & Night capability and the combination of 530TV lines, 0.002Lux light sensitivity, and SSNR noise reduction technology providing crystal clear image quality. SNC-550 offers both Dual voltage plus Power over Ethernet capability making it easy for installers.

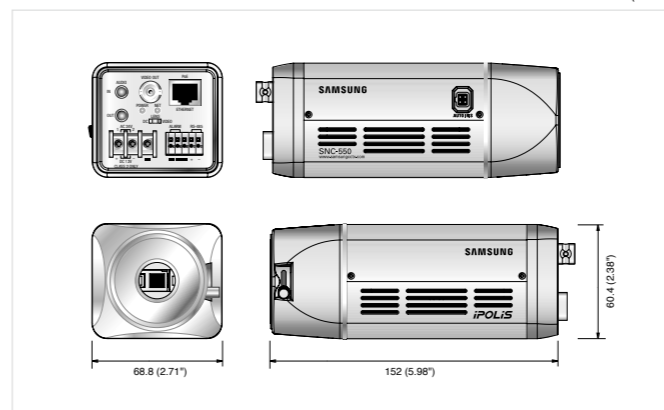


Features

- Real-time MPEG-4/JPEG compression
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Power over Ethernet, bi-directional audio support
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
704 x 576, 704 x 288, 352 x 288(P)
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending
- Network management software (SNM-64S/P, SNM-128S/P)
- 1/3" Super HAD color CCD with 410K pixels(N), 470K pixels(P)
- High resolution of 530TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNR
- Min. illumination of 0.3Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.002Lux@F1.2 (Sens-up)
- 4 Privacy zone masking
- Motion detection
- Dual voltage : 24V AC / 12V DC, PoE

Dimensions

Unit : mm (inch)



Technical Specifications

	SNC-550N	SNC-550P
VIDEO		
Imaging Device	1/3" Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Frequency	H : 15.734 KHz / V : 59.94 Hz	H : 15.625 KHz / V : 50Hz
Horizontal Resolution	Color : 530TV lines (Min.), B/W : 570 TV Lines (Min.)	
Min. Illumination	Color : 0.3Lux (50 IRE@F1.2), 0.002Lux (Sens-up, 128X) B/W : 0.01Lux (50 IRE@F1.2)	
S / N (Y signal)	50dB	
On Screen Display	Built-in	
Camera Title	On / Off	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Low / Medium / High / Off	
Motion Detection	On / Off (Output via communication)	
Privacy Masking	On / Off (8 Programmable zones)	
Noise Filter (SSNR)	Low / Medium / High / Off	
Sens-up (Frame Integration)	On / Off (Selectable limit ~ 128X)	
Gain Control	Low / Medium / High / Manual / Off	
White Balance	ATW (Indoor / Outdoor) / AWC / Manual	
Electronic Shutter Speed	Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK	
PERFORMANCE		
Encoding	Resolution	Up to 704 x 480
	Compression	MPEG-4 / JPEG selectable
	Encode Rate	Up to 30fps@704 x 480
Network	Transmission Speed	Up to 100Mbps
	Max. Remote Users	20 Simultaneously
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP
Security	Password Protection	5 User level
INTERFACE		
Monitor	Output	1 BNC (530TV lines)
	Input	1 Line / MIC in, Mono, 1Vpp
Audio	Output	1 Line out, Line level, 1Vpp
	Compression	ADPCM
Alarm	Sampling Rate	8KHz
	Inputs	Terminal 1 input, NO/NC
Connections	Outputs	Terminal 1 output, NO/NC
	Remote Notification	Via e-mail or FTP
Storage	Ethernet	RJ-45 10/100 Base-T
	OSD Control Interface	RS-485
Storage	SD(SDHC) Memory	N/A
GENERAL		
Input Voltage	Dual (12V DC/ 24V AC), PoE (IEEE 802.3af)	
Power Consumption	Max. 6W	
Operating Temperature	0°C ~ +40°C	
Operating Humidity	30% ~ 80% RH	
Dimension (WxHxD)	68.8 x 60.4 x 152mm (2.7" x 2.4" x 6")	
Weight	570g (1.26 lb)	
Lens Mount	C / CS	
Certifications	FCC (Class A), UL/cUL listed	CE (Class A)

NETWORK PRODUCT

SND-560

1/3" High Performance WDR Network Dome Camera



NEW



IPOLIS SV-IV SSNRII

Overview

The SND-560 network camera uses the latest SV-IV DSP and advanced network codec chipset to deliver high-quality images and multiple network capabilities. It offers 6 different types of image resolutions and qualities to transfer, depending on the local network environment, and supports intelligent image analysis as well as SD memory. Integrated with a vari-focal lens and 3-axis dome, this camera is easy to install.

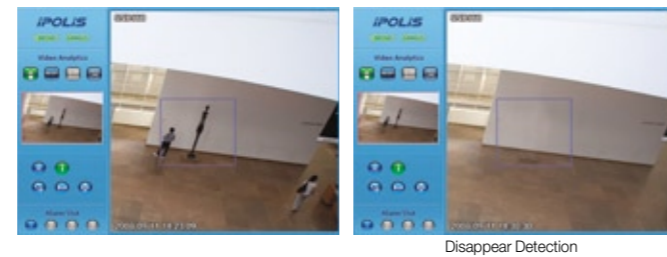


Features

- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution image : 704 x 480, 352 x 240, 176 x 120
704 x 576, 352 x 288, 176 x 144
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- Network management software (SNM-64S/P, SNM-128S/P)
- High resolution of 560TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- Powerful 128X WDR function : Max. 52dB
- Min. illumination of 0.3Lux@F1.2 (Color)
0.01Lux@F1.2 (B/W)
0.001Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

Intelligent video analytics

When an object appears or disappears from an area that is selected, an event is triggered notifying the Central Monitoring Software (CMS) and recording servers and the events are stored locally on the SD Memory card in the device.



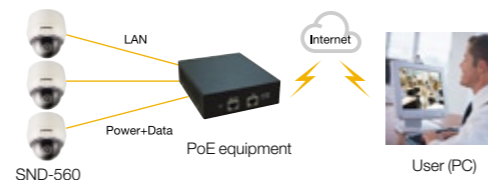
Powerful CMS Software, Samsung Network Manager

The SND-560 is supported by the powerful CMS software. The Samsung Network Manager software provides the ability to monitor up to 64 channels on a single screen and up to 128 channels in dual monitor mode.



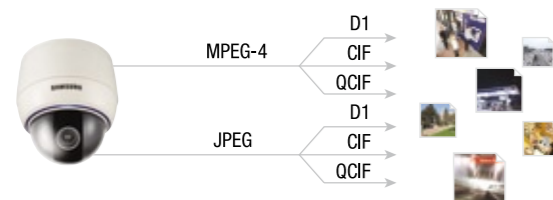
PoE and Dual Power (12V DC/24V AC)

The SND-560 network camera comes standard with Power over Ethernet (PoE), enabling both power and video/audio transmissions through a single Ethernet cable. Reduced cabling requirements make installation easier and more cost effective.



Real-time multi-stream

The SND-560 can encode 6 different streams (MPEG-4/JPEG in D1, CIF, QCIF) simultaneously in real-time giving users the flexibility to set optimal transmission settings for the network infrastructure.



SND-560

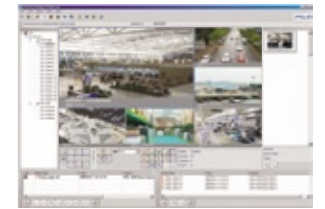
1/3" High Performance WDR Network Dome Camera

Technical Specifications

	SND-560N	SND-560P
VIDEO		
Imaging Device	1/3" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Frequency	H : 15.734 KHz / V : 59.94 Hz	H : 15.625 KHz / V : 50Hz
Horizontal Resolution	Color : 560TV lines (Min.), B/W : 700 TV Lines (Min.)	
Min. Illumination	Color : 0.3Lux (50 IRE@F1.2), 0.001Lux (Sens-up, 256X) B/W : 0.01Lux (50 IRE@F1.2)	
S / N (Y signal)	52dB	
On Screen Display	Built-in (Multi-language support)	
Camera Title	On / Off	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	WDR / BLC / HLC / Off	
Dynamic Range	52dB	
Motion Detection	On / Off (Output via communication)	
Digital Image Stabilization	On / Off	
Privacy Masking	On / Off (8 Programmable zones)	
3D Noise Filter (SSNRII)	On / Off (Level adjustable)	
Sens-up (Frame Integration)	Auto / Off (Selectable limit - 256X)	
Gain Control	High / Low / Off	
White Balance	ATW / AWC / Manual / Indoor / Outdoor	
Electronic Shutter Speed	Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK	
LENS		
Zoom Ratio	3.6X (Manual)	
Focal Length	2.8 ~ 10mm (F1.2)	
Max. Aperture Ratio	1 : 1.2(Wide) ~ 2.8(Tele)	
Min. Object Distance	0.2m (0.66ft)	
Angular Field of View	H : 101.8°(Wide) ~ 28.6°(Tele) / V : 74.3°(Wide) ~ 21.5°(Tele)	
Focus	Manual	
Ins Control	Auto	
PAN / TILT / ROTATE		
Pan Range	0° ~ 340°	
Tilt Range	0° ~ 146°	
Rotate Range	0° ~ 340°	
PERFORMANCE		
Encoding	Resolution	Up to 704 x 480
	Compression	MPEG-4 / JPEG dual codec
	Encode Rate	Up to 30fps@704 x 480
Network	Transmission Speed	Up to 100Mbps
	Max. Remote Users	20 Simultaneously
	Protocol Support	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP
Security	Video Analytics	Object detection (Missing object)
	Password Protection	5 User level
INTERFACE		
Monitor	Output	1 BNC (560TV lines)
	Input	1 Line / MIC in, Mono, 1Vpp, 5.6K ohm
Audio	Output	1 Line out, 1Vpp
	Compression	ADPCM
	Sampling Rate	8KHz
Alarm	Inputs	Terminal 1 input, NO/NC
	Outputs	Terminal 1 output, NO/NC
Connections	Remote Notification	Via e-mail or FTP
	Ethernet	RJ-45 10/100 Base-T
Storage	OSD Control Interface	RS-485
	SD(SDHC) Memory	Stored event image, Back up
GENERAL		
Input Voltage	Dual (12V DC/ 24V AC), PoE (IEEE 802.3af)	
Power Consumption	Max. 8.5W	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	30% ~ 80% RH	
Dimension (WxHxD)	Ø132.4 x 144.2mm (Ø5.21" x 5.68")	
Weight	900g (1.98 lb)	
Certifications	FCC (Class A), UL/cUL listed	CE (Class A)

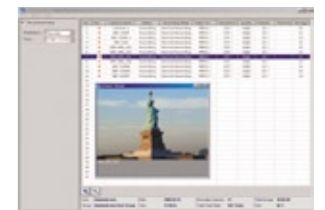
Software

Centralized Video Management Software



SNM-64S/P, SNM-128S/P

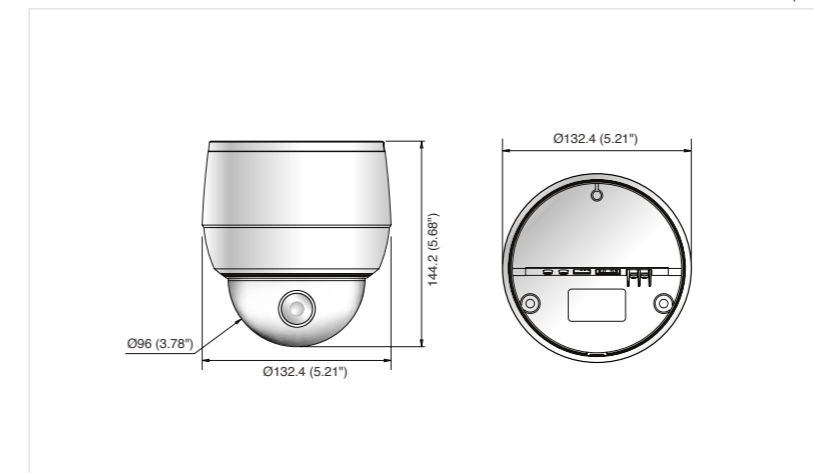
Network Recording Software



SNR-32A/16A/9A

Dimensions

Unit : mm (inch)





SNP-3300A

1/4" Low Light WDR 30X PTZ Network Camera



Overview

The SPD-3300A is a network ready high performance 30X PTZ camera that incorporates the SV-III DSP engine at its heart. It's equipped with a 30X (3.3 ~ 99mm) optical zoom lenses and a 8X digital zoom, which gives a total zoom capability of up to 240X. It provides seamless network integration coupled with Samsung Techwin's high imaging quality giving you the best network camera solutions.



iPOLiS SVIII SSNR

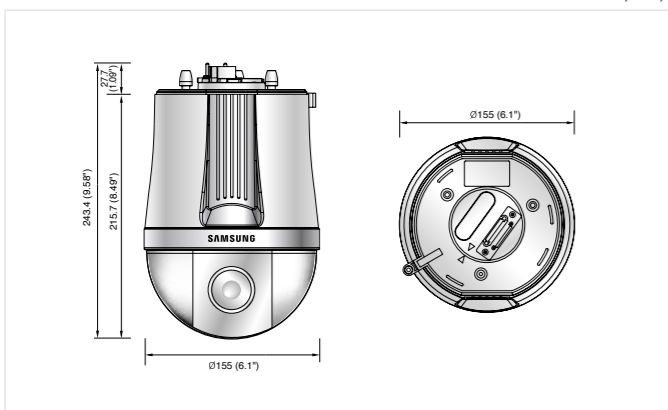


Features

- Real-time MPEG-4/JPEG compression
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Area zoom support
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
704 x 576, 704 x 288, 352 x 288(P)
- Sensor 4 in / 2 out, bi-directional audio support
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending, analog output support
- Network management software (SNM-64S/P, SNM-128S/P)
- Powerful 30X optical zoom (3.3 ~ 99mm) and 8X digital zoom
- High resolution of 520TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Powerful 126X WDR function : Max. 52dB
- Min. illumination of 0.4Lux@F1.6 (Color)
0.08Lux@F1.6 (B/W)
0.003Lux@F1.6 (Sens-up)
- Programmable 128 presets
- Voltage : 24V AC

Dimensions

Unit : mm (inch)



Technical Specifications

	SNP-3300AN	SNP-3300AP
VIDEO		
Imaging Device	1/4" Vertical double density interline CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Frequency	H : 15.734 KHz / V : 59.94 Hz	H : 15.625 KHz / V : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.), B/W : 570 TV Lines (Min.)	
Min. Illumination	Color : 0.4Lux (50 IRE@F1.6), 0.003Lux (Sens-up, 128X) B/W : 0.08Lux (50 IRE@F1.6)	
S / N (Y signal)	52dB	
On Screen Display	Built-in	
Camera Title	On / Off	
Camera ID	253	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	On / Off	
Dynamic Range	52dB	
Motion Detection	On / Off (Output via communication)	
Privacy Function	On / Off (8 Programmable zones)	
Noise Filter (SSNR)	Low / Medium / High / Off	
Sens-up (Frame Integration)	On / Off (Selectable limit - 128X)	
Gain Control	Low / Medium / High / Manual / Off	
White Balance	ATW (Indoor / Outdoor) / AWC / Manual	
Electronic Shutter Speed	Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK	
LENS		
Zoom Ratio	30X (Optical), 8X (Digital)	
Focal Length	3.3 ~ 99mm (F1.6 ~ 3.2)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 3.2(Tele)	
Min. Object Distance	1.2m (3.94ft)	
Angular Field of View	H : 58°(Wide) ~ 2.22°(Tele) / V : 44.8°(Wide) ~ 1.68°(Tele)	
Focus	Auto / Manual / One-push	
Zoom Movement Speed	5.2sec	
IRIS Control	Auto / Manual	
PAN / TILT		
Panning Range	360° Endless	
Panning Speed	Preset : 240°/sec / Manual : 0.5° ~ 120°/sec (Proportional zoom ratio)	
Tilting Range	-4° ~ 184°	
Tilting Speed	Preset : 240°/sec / Manual : 0.5° ~ 120°/sec (Proportional zoom ratio)	
Preset Positions	128	
Preset Accuracy	±0.3°	
PTZ Mode	Preset, Swing, Group, Tour, Trace, A, Pan	
PERFORMANCE		
Resolution	Up to 704 x 480	Up to 704 x 576
Compression	MPEG-4 / JPEG selectable	
Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
Transmission Speed	Up to 100Mbps	
Max. Remote Users	20 Simultaneously	
Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP	
Area Zoom	Web viewer, SNM-128S/P (CMS)	
Security	Password Protection 5 User level	
INTERFACE		
Monitor	Output : 1 BNC (520TV lines) Input : 1 Line / MIC in, Mono, 1Vpp	
Audio	Output : 1 Line out, Line level, 1Vpp Compression : ADPCM Sampling Rate : 8KHz	
Alarm	Inputs : Terminal 4 input, NO/NC Outputs : Terminal 2 output, NO/NC Remote Notification : Via e-mail or FTP	
Connections	Ethernet : RJ-45 10/100 Base-T	
Storage	SD(SDHC) Memory : N/A	
GENERAL		
Input Voltage	24V AC	
Power Consumption	Max. 10W	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	20% ~ 80% RH	
Dimension (WxH)	Ø155 x 243.4mm (Ø6.1" x 9.58")	
Weight	2Kg (4.41 lb)	
Ingress Protection	IP67 (Optional housing)	
Certifications	FCC (Class A), cUL	CE (Class A)



SNP-1000A

1/4" High Resolution 10X PTZ Network Camera

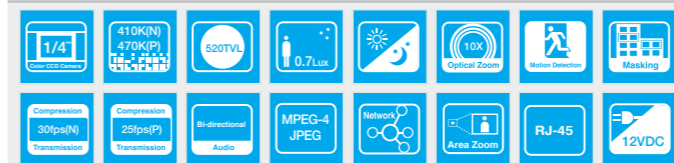


Overview

The SNP-1000A is a network ready indoor variable speed PTZ camera system that is powerful yet economical. It provides 10X zoom capability with a rich set of system features that make it the right choice for a wide variety of indoor applications. It provides both MPEG-4 and JPEG compression coupled with real-time image transmission making an ideal solution for your network video security system.



iPOLiS WIII SSNR

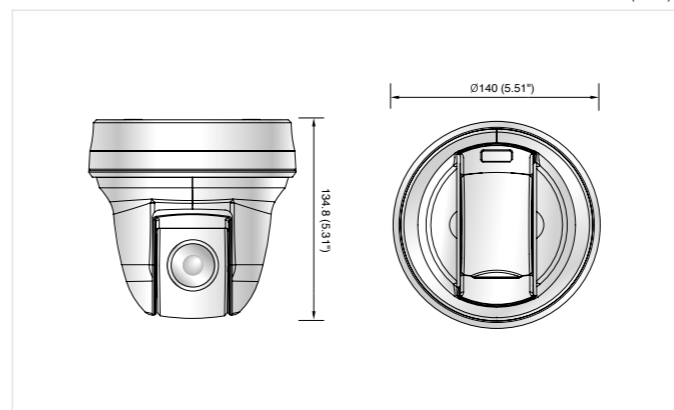


Features

- Real-time MPEG-4/JPEG compression
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Area zoom support
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
704 x 576, 704 x 288, 352 x 288(P)
- Sensor 2 in / 1 out, bi-directional audio support
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending, analog output support
- Network management software (SNM-64S/P, SNM-128S/P)
- Powerful 10X optical zoom (3.8 ~ 38mm) and 10X digital zoom
- High resolution of 520TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Using the SSNR technology, removed noise & ghost images
- Min. illumination of 0.7Lux@F1.8 (Color)
0.02Lux@F1.8 (B/W)
0.005Lux@F1.8 (Sens-up)
- Programmable 128 Presets
- Voltage : 12V DC

Dimensions

Unit : mm (inch)



Technical Specifications

	SNP-1000AN	SNP-1000AP
VIDEO		
Imaging Device	1/4" Interline transfer CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2 : 1 Interlace	
Frequency	H : 15.734 KHz / V : 59.94 Hz	H : 15.625 KHz / V : 50Hz
Horizontal Resolution	Color : 520TV lines (Min.), B/W : 570 TV Lines (Min.)	
Min. Illumination	Color : 0.7Lux (50 IRE@F1.8), 0.005Lux (Sens-up, 128X) B/W : 0.02Lux (50 IRE@F1.8)	
S / N (Y signal)	50dB	
On Screen Display	Built-in	
Camera Title	On / Off	
Camera ID	253	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	On / Off	
Motion Detection	On / Off (Output via communication)	
Privacy Function	On / Off (4 Programmable zones)	
Noise Filter (SSNR)	Low / Medium / High / Off	
Sens-up (Frame Integration)	On / Off (Selectable limit - 128X)	
Gain Control	Low / Medium / High / Manual / Off	
White Balance	ATW (Indoor / Outdoor) / AWC / Manual	
Electronic Shutter Speed	Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK	
LENS		
Zoom Ratio	10X (Optical), 10X (Digital)	
Focal Length	3.8 ~ 38mm (F1.8)	
Max. Aperture Ratio	1 : 1.6(Wide) ~ 2.8(Tele)	
Min. Object Distance	1.5m (4.92ft)	
Angular Field of View	H : 51.2°(Wide) ~ 5.58°(Tele) / V : 39.3°(Wide) ~ 4.27°(Tele)	
Focus	Auto / Manual / One-push	
Zoom Movement Speed	1.67sec	
IRIS Control	Auto / Manual	
PAN / TILT		
Panning Range	350°	
Panning Speed	Preset : 140°/sec / Manual : 0.5° ~ 70°/sec	
Tilting Range	-5° ~ 185°	
Tilting Speed	Preset : 100°/sec / Manual : 0.5° ~ 50°/sec	
Preset Positions	128	
Preset Accuracy	±1.0°	
PTZ Mode	Preset, Swing, Group, Tour, Trace, A, Pan	
PERFORMANCE		
Resolution	Up to 704 x 480	Up to 704 x 576
Compression	MPEG-4 / JPEG selectable	
Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
Transmission Speed	Up to 100Mbps	
Max. Remote Users	20 Simultaneously	
Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP	
Area Zoom	Web viewer, SNM-128S/P (CMS)	
Security	Password Protection 5 User level	
INTERFACE		
Monitor	Output : 1 BNC (520TV lines) Input : 1 Line / MIC in, Mono, 1Vpp	
Audio	Output : 1 Line out, Line level, 1Vpp Compression : ADPCM Sampling Rate : 8KHz	
Alarm	Inputs : Terminal 2 input, NO/NC Outputs : Terminal 1 output, NO/NC Remote Notification : Via e-mail or FTP	
Connections	Ethernet : RJ-45 10/100 Base-T	
Storage	SD(SDHC) Memory : N/A	
GENERAL		
Input Voltage	12V DC	
Power Consumption	Max. 6W	
Operating Temperature	0°C ~ +40°C	
Operating Humidity	20% ~ 75% RH	
Dimension (WxH)	Ø140 x 134.8mm (Ø5.51" x 5.31")	
Weight	0.85Kg (1.87 lb)	
Ingress Protection	IP67 (Optional housing)	
Certifications	FCC (Class A)	CE (Class A)

SNM-128P

Centralized Video Management Software

Overview

The SNM-128P (Network Manager Professional) CMS software helps to efficiently manage systems by centrally operating Samsung Techwin DVRs and networking products on the same network. It consists of 3 programs. Viewer, Player, and Map Viewer, and provides a variety of convenient video monitoring features, PTZ control, versatile event and alarm controls, two-way audio, recorded and live video monitoring, video replay, and maps.



Features

- Up to 128 channels real-time live monitoring
- Support up to 6 VGA output
- Register unlimited devices and control up to 128 stream simultaneously
- PTZ, bi-directional audio, sensor / relay
- Instant video display on alarm and event
- Graphic MAP image support
- Search by time / date and text
- Instant manual recording up to 10 minutes

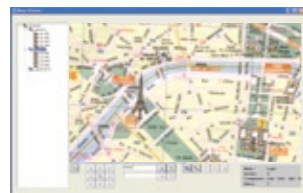
Up to 128 channels live viewing

SNM-128P provides ability to view up to 128 live channels by using two monitors, 64 live channels in each screen.



Mapping Support

The SNM-128P offers a 2D graphical view of your secured area with layering capability allowing users to define various levels of an area such as national map, states, cities, buildings, and sites. The operator can drill down to the map layer to get the actual location of the alerts. In addition, the live video image or recorded image corresponding to the events can be easily checked with a click of a mouse.

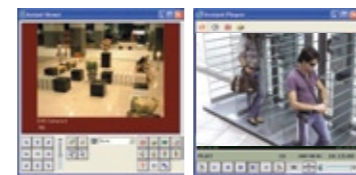
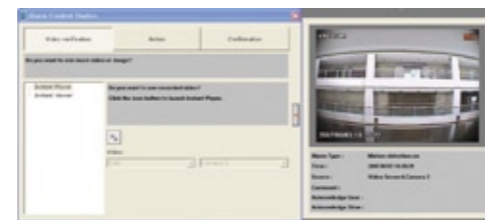


Various alarm & event control

Experience more convenient surveillance through the alarm/event control of the SNM-128P. The SNM-128P can monitor with pop-up images and lists by receiving event/alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating a warning, sound, to be performed when an alarm signal is received. The alarm control station, supports more powerful alarm/event management.

Alarm control station (Window for alarm status control only)

- Instant viewer, Live image indication
- Instant player, Recorded image playback (DVR only)
- Alarm status check and add incident response comments to events
- If FTP is possible then it is missing in the specifications



Up to 6 VGA monitor outputs supported

The SNM-128P supports the Microsoft Windows' multi-monitor feature allowing users to use up to 6 monitors to view Live, Playback, Mapping, and Events simultaneously without switching between applications from their PC.



SNM-128P

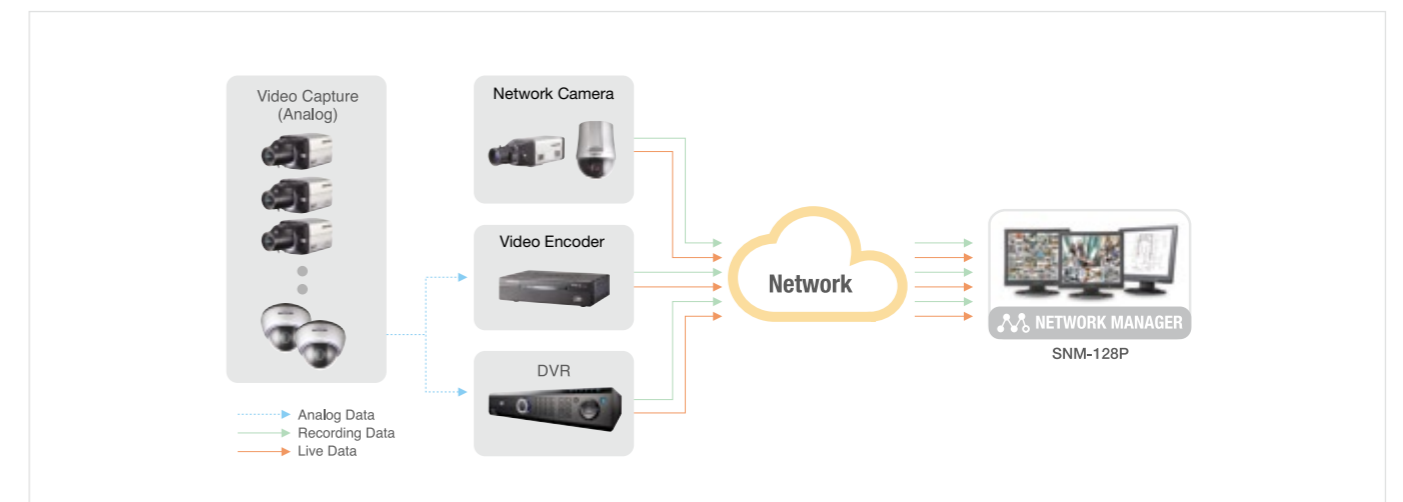
Centralized Video Management Software

Technical Specifications

		SNM-128P (Professional)
Device to Use	Supported Devices	Network Camera : SNC-570/550, SND-560, SNP-3300A/1000A Video Encoder : SNS-400/100 DVR : SVR-3200/1680/1660/1645/960/945/940/450
	Max. Register Device	1000
	Multi-monitor	Max. 6
Live Monitoring	Screen-split Modes	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen)
	Launches Instant Player	DVR only
	Controls PTZ Function	Pan, Tilt, Zoom, Focus, Preset
	Snapshot / Prints Image	Supported
Playback	Local (Remote) Playback / Back up	Supported
	Converts Video Format	AVI
	Search	Go to a certain time, Latest data search, Timeline index search, Thumbnail image search
	Zooms in/out on the Image	Supported
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
Event Signal Monitoring	Display	Current event log on the list, live image, Changes border of live video channel to red
	Filtering	Unnecessary signal
	Event image Playback	DVR only
	Displays	Current alarm log on the list, Live/thumbnail image
Alarm Signal Monitoring	Set up	A certain period of time of a day, A certain types of alarms Automated notifications to user, Schedules actions against alarms
	Event Image Playback	DVR only
	Controls Preset on PTZ Camera	Supported
	Plays Warning Sound or Message	Supported
	FTP/E-mail Notification	Supported
	Marks an Alarm as Confirmed	Supported
	Provides Space to Write Comments	Supported
Alarm Control Station	Supported	
User	Admin / User	Admin / User : Unlimited
MAP	Number of Map	Map group : Unlimited, Sub-Map, Layout : 64
	Supports Image	JPEG / BMP
System Specifications		CPU : Intel Core2Duo E6750, RAM : 2GB above Video memory : 512MB, HDD : 80GB above OS : Window XP/Vista, DirectX 9.0 above Display resolution : 1,280 x 1,024 above

* The entire items are not supported in every device. Some items are not supported in certain devices.

System Configuration



Viewer



Live



Event / Alarm



Map

Accessories



USB Dongle Key



SNM-64P

Centralized Video Management Software

Overview

The SNM-64, Samsung Network Video Management Software fully integrates multiple devices and register unlimited devices. Not only the SNM-64 gives you the ability to integrate IP video products, it lets you create a hybrid video security system, integrating analogue video and IP-based digital video devices together. Its unique functionality helps users leverage their existing analogue infrastructure.



IPOLiS

Features

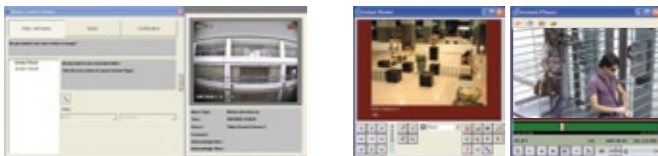
- Up to 128 channels real-time live monitoring
- Support up to 3 VGA output
- Register unlimited devices and control up to 128 stream simultaneously
- PTZ, bi-directional audio, sensor / relay
- Instant video display on alarm and event
- Graphic MAP image support
- Search by time / date and text
- Instant manual recording up to 10 minutes

Various alarm & event control

Experience more convenient surveillance through the alarm/event control of the SNM-64P. The SNP-64P can monitor with pop-up images and lists by receiving event/ alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating warning sound, to be performed when an alarm signal is generated. The alarm control station, which is provided additionally, supports more powerful alarm/event management.

Alarm control station (Window for alarm status control only)

- Instant viewer, Live image indication
- Instant player, Recorded image playback (DVR only)
- Alarm status check and description phrases writing
- Transmitting image files via FTP server and sending e-mails



Accessories

USB Dongle Key



Technical Specifications

		SNM-64P (Professional)
Device to Use	Supported Devices	Network Camera : SNC-570/550, SND-560, SNP-3300A/1000A Video Encoder : SNS-400/100 DVR : SVR-3200/1680/1660/1645/960/945/940/450
	Max. Register Device	No limit
Live Monitoring	Multi-monitor	Max. 3 (Live 2)
	Screen-split Modes	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen)
	Launches Instant Player	DVR only
	Controls PTZ Function	Pan, Tilt, Zoom, Focus, Preset
Playback	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Local (Remote) Playback / Back up	Supported
	Converts Video Format	AVI
	Search	Go to a certain time, Latest data search, Timeline index search, Thumbnail image search
Event Signal Monitoring	Zooms in/out on the Image	Supported
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
Monitoring	Display	Current event log on the list, live image, Changes border of live video channel to red
	Filtering	Unnecessary signal
Set up	Event image Playback	DVR only
	Displays	Current alarm log on the list, Live/thumbnail image
Alarm Signal	Set up	A certain period of time of a day, A certain types of alarms Automated notifications to user, Schedules actions against alarms
	Event Image Playback	DVR only
Monitoring	Controls Preset on PTZ Camera	Supported
	Plays Warning Sound or Message	Supported
	FTP/E-mail Notification	Supported
	Marks an Alarm as Confirmed	Supported
User	Provides Space to Write Comments	Supported
	Alarm Control Station	Supported
MAP	Group / User	Group / user : No limit
	Number of Map	Map group : No limit, Layers : 16, Maps : 64
System Specifications	Supports Image	JPEG / BMP
		CPU : Intel Core2Duo E4300, RAM : 2GB above
		Video memory : 256MB, HDD : 80GB
		OS : Window 2000/XP SP2, DirectX 9.0 above Display resolution : 1,024 x 768 above

* The entire items are not supported in every device. Some items are not supported in certain devices.



SNR-32A/16A/9A

32 / 16 / 9 Channel Network Recording Software

Overview

The SNR-32A/16A/9A is a feature-rich network recording software. It can record up to 32 units of IP products and is compatible with the SNM-64S/P, Samsung Network Manager. The network recorder offers great convenience and flexibility in recording real-time videos via the internet.



IPOLiS

Features

- Record up to 32 audio / video streams
- Record up to 480fps at CIF resolution
- Record up to full D1 resolution
- Ability to view live display and play back recorded video on single channel
- User IP filtering
- Unlimited product registration

MPEG-4/JPEG dual codec

The SNR-32A/16A/9A uses MPEG-4 and JPEG compression so that users can select a compression algorithm according to their circumstances. Users can select a resolution (D1, Half D1, CIF), picture quality and frame rate variously according to traffic environment of network, so real-time monitoring is available.



Max. 480fps real-time recording, Various recording modes

High resolution images of maximum 480fps that network unit sends can be stored. It also supports a selection of recording modes such as D1 (704 x 480), Half D1 (704 x 240), CIF recording, normal, schedule, and event, motion detection etc., ensuring optimized network video recording.

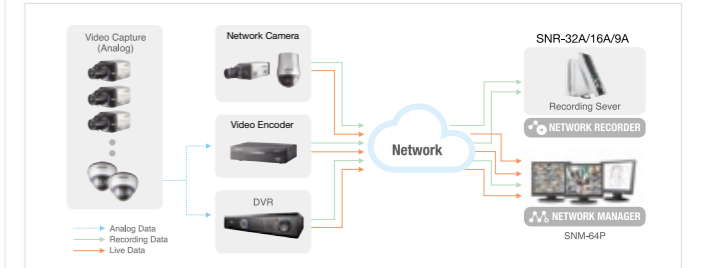


Technical Specifications

		SNR-32A	SNR-16A	SNR-9A
Supported H/W	Supported Devices	Network Camera : SNC-570/550, SND-560, SNP-3300A/1000A Video Encoder : SNS-400/100		
	Max. Register Device	No limit		
Performance	Max. Record Channel	32	16	9
	Recording	480 CIF	480 CIF	270 CIF
Recording	Playback	5 Client	5 Client	5 Client
	Video Codec	MPEG-4, JPEG		
	Audio Codec	ADPCM		
	Resolution	D1, Half D1, CIF		
	Quality	5 level		
	Pre/Post Recording Time	60sec / 60sec		
	Recording Mode	Continue, Schedule, MD, Event, Compound		
Component Search	Set up	Configurable frame rate for each CH (1~30(N), 1~25(P)), Channel independent set up		
	Camera / Sensor / Relay Search Mode	32 / 32 / 32	16 / 16 / 16	9 / 9 / 9
Storage	Space Configuration (Each Drive)	Supported		
	Space Shortage Warning	Supported		
User	NAS (Network Attached Storage)	Supported (External)		
	User Level	2		
S/W Status	Local (Remote) User	Group : 1, User : No limit		
	IP Filtering (Remote user)	Supported		
Data Security Technology	Record, Record schedule, Storage, Live/Recording image (Instant viewer)			
	Login Packet Encryption	Supported		
System	System auto recovery, Auto power-on record			
	CPU : Intel Core2Duo E8400, RAM : 2GB above Video memory : 256MB, HDD : 250GB			
System Specifications	OS : Window XP SP2, Windows 2003 SP2			
	DirectX 9.0 above, Microsoft .Net Framework 2, Microsoft SQL Server 2005			

* The entire items are not supported in every device. Some items are not supported in certain devices.

System Configuration



SCC-3100A

System Controller for PTZ Dome Cameras, DVRs and Matrix Switchers



Overview

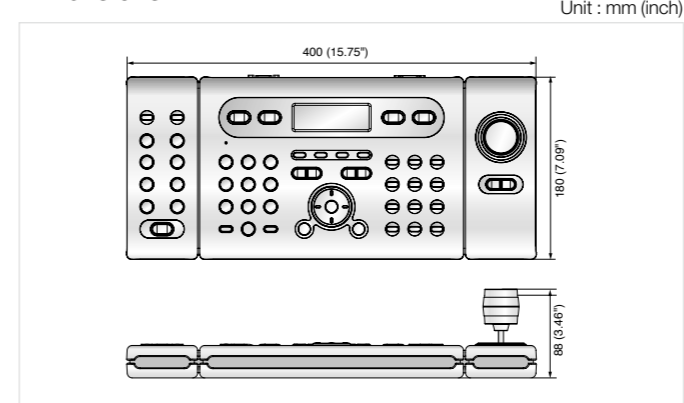
The Samsung SCC-3100A is a keyboard controller capable of controlling up to 255 PTZ dome cameras, DVRs, matrix switchers and receivers simultaneously. It offers powerful system compatibility with multiple protocols. And its intuitive keypad, large LCD window and ergonomic design allows more ease and convenience of use.



Features

- Control of both PTZ dome cameras, DVRs and matrix switchers
- Centralized control of up to 255 units from a single controller
- Up to 16 controllers may be connected to a system
- Ergonomic design and easy-to-use keypad
- 3D joystick control of PTZ functions
- Large character LCD display (20 x 4 lines)
- Multi-protocol support
- Included power supply : 12V DC, 700mA

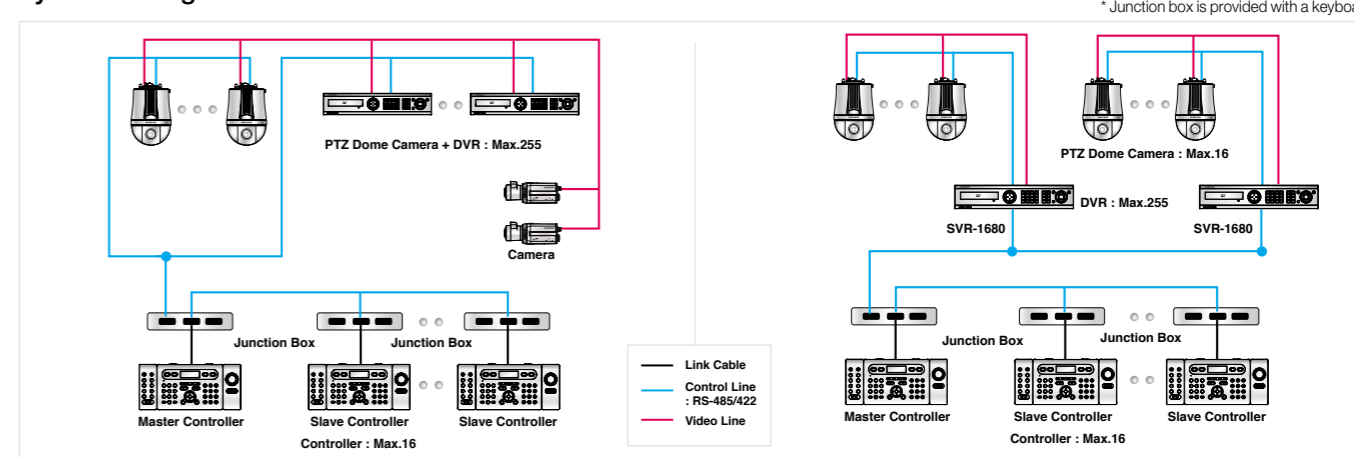
Dimensions



Technical Specifications

		SCC-3100A
Included	Input	100V AC ~ 240V AC (50/60Hz)
Power Supply	Output	12V DC, 700mA
Connector		3 Port
LCD Display		20 x 4 Character LCD
PTZ Control		Joystick (3-axis twist zoom)
Sub Controller		Max. 16 unit connection
Compatible Hardware	PTZ Dome	Samsung Techwin PTZ Dome Pelco-D/P, Panasonic (WV-CS854) Samsung Electronics (SCC-643/641)
	DVR	SVR-3200/1680/1660/1645/960/945/940/450
	Receiver	SPX-100B
	Matrix	SMX-25632
Control Capacity		Max. 255
Auto Surveillance		Tour, Group, Swing, Preset etc. Selection of PTZ, DVR : Each ID input
Communication		RS-485/422 (Remote control 1.2Km above possibility)
RS-485/422 Spec.	Communication Set	Asynchronous serial, 1 Start bit, No parity, 1 Stop bit
	Transmission Method	Half duplex / Full duplex
	Baud Rate (bps)	4,800 ~ 38,400bps (9,600bps Promotion) Sub controller communication 57,600bps fixation
Operating Temperature		0°C ~ 40°C
Operating Humidity		10% ~ 75%
Dimensions (WxHxD)		400 x 180 x 88mm (15.75" x 7.09" x 3.46")
Weight		1.5Kg (3.31 lb) (Without adapter)
Certifications		FCC (Class A), CE (Class A)

System Configuration



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CONTROLLER

Samsung Digital Security Systems



SAMSUNG TECHWIN



SCC-1000

PTZ Control Keyboard

Overview

The SCC-1000 lets the operator have simultaneous control of up to 255 PTZ cameras. It offers superior system compatibility with support for multiple protocols.



NEW

Features

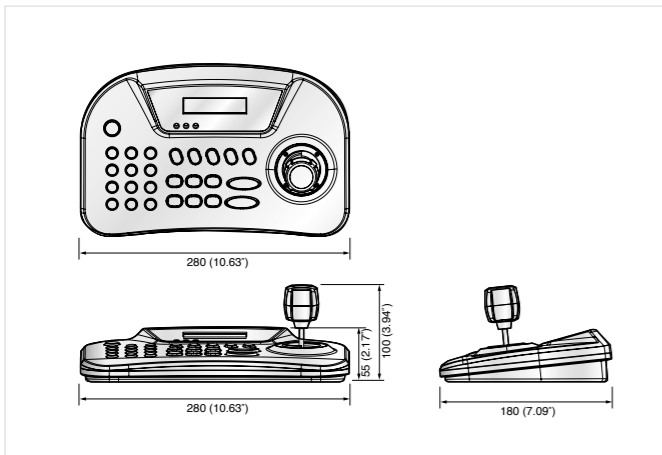
- Controls up to 255 PTZ cameras
- Superior system compatibility : Multi protocols supports
- OSD Menu, 3D joystick control
- RS-485 and RS-422 Compatibility

Technical Specifications

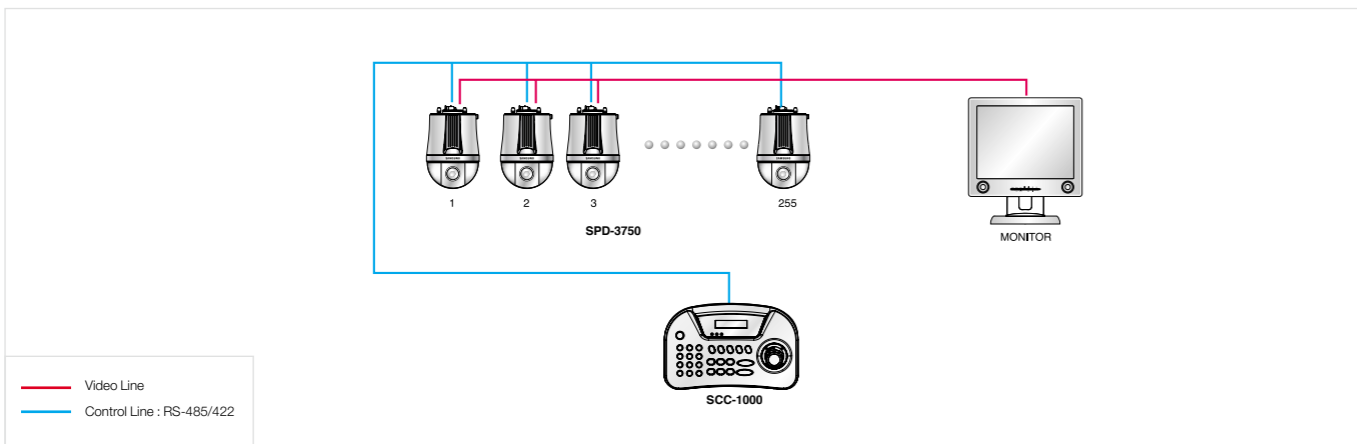
		SCC-1000
LCD Display		16 x 2 Character LCD
Speed Control		Joystick (3-axis Twist Zoom)
Compatible	PTZ Dome	Samsung Techwin PTZ Dome
		PELCO-D/P, Panasonic, Vicon, AD, Honeywell, Samsung Electronics
Hardware	Zoom Camera	SDZ-375/370
	Receiver	SRX-100B
Control Capacity		Up to 255 Cameras (Suitable for Mid-, Large-size System)
Communications	Standards	RS-485 / RS-422 (Remote Control : 1Km)
	Transfer Speed	2,400 ~ 57,600bps
Voltage		12V DC, 140mA
Operating Temperature		0°C ~ 45°C
Operating Humidity		10 ~ 70%
Dimensions (WxHxD)		280 x 180 x 100mm (10.63" x 7.09" x 3.94")
Weight		Approx. 0.7Kg (1.54 lb) (Without Adapter)

Dimensions

Unit : mm (inch)



System Configuration



SDQ-420

Dual Color Quad Switcher

Overview

The SDQ-420 is a dual color quad that can receive a maximum of 8 cameras and display 4 cameras at a time. The unit provides multiple screens in real time display modes with high image resolution and individual freeze function. It is a powerful and cost effective device that can be used with quick OSD functions.



Features

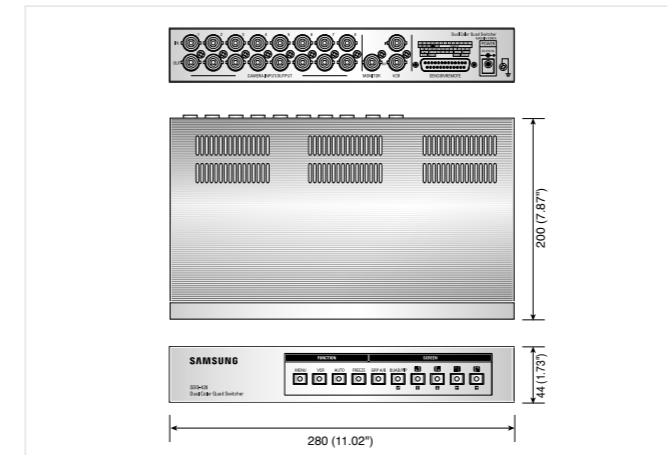
- Two page quad switching (8 Channels camera input)
- High resolution image (720 x 576)
- Multiple displays and action on alarm support
- Individual freeze function
- Adjustable date & time display
- Enhanced record and playback with 2X digital zoom

Technical Specifications

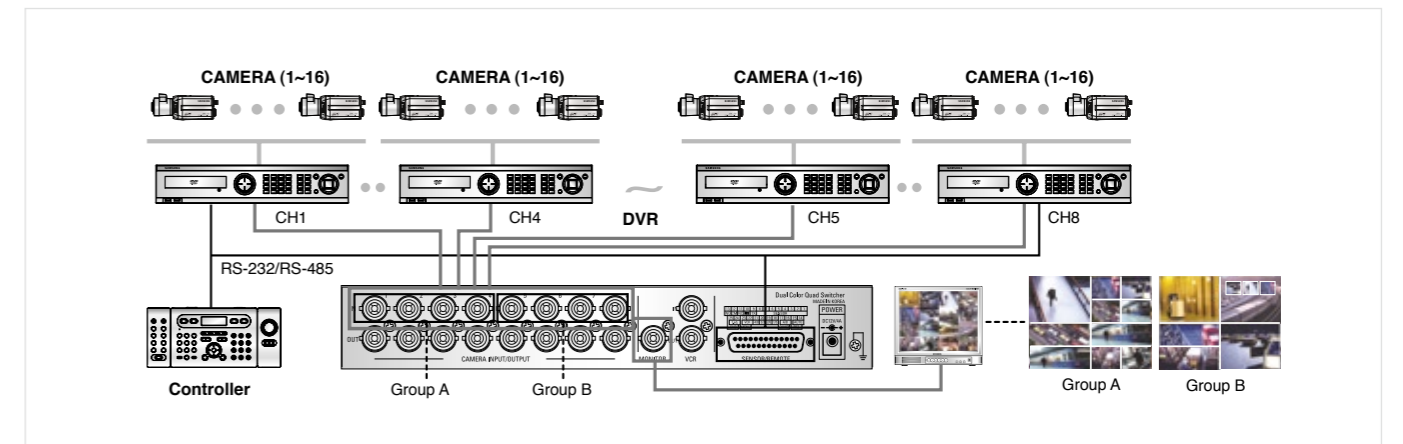
		SDQ-420
Power Source		12V DC / 4A
Power Consumption		10W (Approximately)
Video Input		8 BNC
Looping Output		BNC / Switchable termination / 75Ω or Hi-z
Monitor Output		1 BNC
VCR In / Output		2 BNC
Alarm Input		8 Channels / 25Pins D-sub
Alarm Output		Relay contact rating (Resistive) - 0.5A 120V AC or 1A 24V DC
Alarm Duration		Programmable 1 to 99sec / Default 10sec
Power Connection		DC Jack
Video Standard		625Lines, 50field/sec
Video Resolution		720(H) x 576(V)pixels full screen
Digital Memory		8 Bit luma / 256 Shades of gray, 24 Bit luma / 16 Million colors
Display Rate		True real time, 30 frames per second
Quad Display		360(H) x 288(V)pixels quad screen
Monitor Output		1.0Vp-p composite, 75Ω
VCR Input		1.0Vp-p composite
Digital Zoom		2X Digital zoom for playback
Operating Temperature		0°C ~ 50°C
Storage Temperature		-40°C ~ 60°C
Operating Humidity		10% ~ 90% (Non-condensing)
Dimensions (WxHxD)		280 x 44 x 200mm (11.02" x 1.73" x 7.87")
Weight		1.5Kg (3.31 lb)

Dimensions

Unit : mm (inch)



System Configuration





SMX-25632

256 Input / 32 Output Video Matrix Switcher



Overview

The SMX-25632 matrix switcher provides switching and control for up to 256 video inputs and 32 monitor outputs using SME-25632 matrix extension bays. The SMX-25632 can be controlled from the SCC-3100A system controller. It ensures that users can produce reliable and efficient management of medium to large-scale video security systems.



Features

- Max. 256 camera input, 32 monitor output
- Connects up to 3 extension units (SME-25632), 16 video cards (SMV-25632)
- Supports 32 alphabet letters
- Controllable by a system keyboard (SCC-3100A)
- Built-in power supply

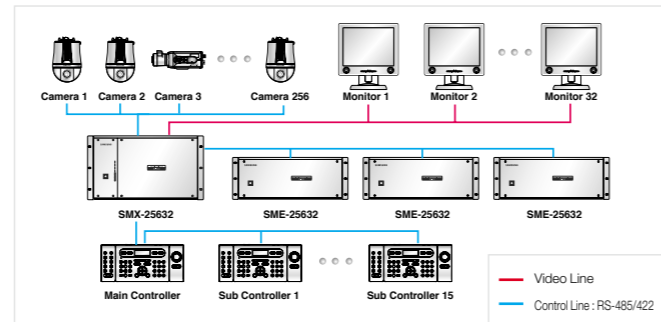
Technical Specifications

SMX-25632 (Matrix CPU)	
System	16 Video card slots, Controller interface
Features	256 x 32 Video matrix control Video extension unit connector (Up to 3 sets)
OSD	Displays 16 Korean characters or 32 alphabet letters, numbers, or symbols Date / Time display
Camera I/O	64 Camera input, 32 Monitor output (Max. 32 monitor output with 16 video cards)
Communication	TTL Level
Power Consumption	Max. 120W
Operating Temperature	0°C ~ +40°C
Operating Humidity	30% ~ 90% RH
Dimensions (WxHxD)	430 x 256 x 350mm (16.93" x 10.08" x 13.78")
Weight	15Kg (33.07 lb)
Certifications	CE (Class A)

SME-25632 (Matrix Extension Bay)	
Features	64 Camera input control (Connectable up to 3 units)
Power Consumption	Max. 50W
Operating Temperature	0°C ~ +40°C
Operating Humidity	30% ~ 90% RH
Dimensions (WxHxD)	430 x 177 x 350mm (16.93" x 6.97" x 13.78")
Weight	10Kg (22.05 lb)
Certifications	CE (Class A)

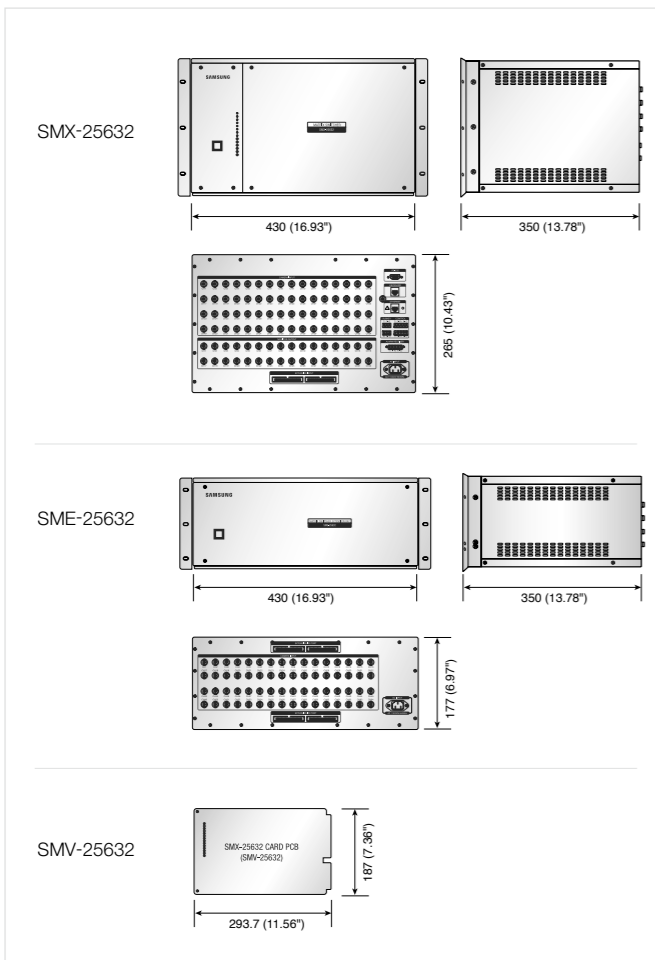
SMV-25632 (Matrix Video Card)	
Features	2 Monitor output Time generator, I/D generator, Video I/O selector, Video sync correction
OSD	32 Alphabet letters or 16 Korean characters (Combinations allowed) Freeze On / Off, Year / Month / Date / Hour / Minute / Second
Power Consumption	Max. 9W
Operating Temperature	0°C ~ +40°C
Operating Humidity	30% ~ 90% RH
Dimensions (WxD)	293.7 x 187mm (11.56" x 7.36")
Weight	0.3Kg (0.66 lb)

System Configuration



Dimensions

Unit : mm (inch)



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MONITOR
Samsung Digital Security Systems

SAMSUNG TECHWIN SAMSUNG



MONITOR SELECTION

	STM-19LA/17LA	STM-19LM/17LM	STM-19LP/17LP	STM-42L/32L
Color System	NTSC / PAL			
Video In	2 BNC, 1 S-Video, 1 VGA	2 BNC, 1 S-Video, 1 VGA	1 VGA	2 BNC, 1 S-Video, DVI-D, HDMI, Trigger
Video Out	2 BNC	2 BNC	N / A	2 BNC
Audio In	3.5mm stereo input, 2 RCA	3.5mm stereo input, 2 RCA	N / A	3.5mm stereo input, 2 RCA
Audio Out	2 built-in speakers	2 built-in speakers	N / A	2 built-in speakers
Type	19", 17" TFT-LCD	19", 17" TFT-LCD	19", 17" TFT-LCD	42", 32" TFT-LCD
Resolution	SXGA	SXGA	SXGA	WXGA
Power Source	12V DC, 4.16A (Power supply Included)	12V DC, 4A (Power supply Included)	12V DC, 4A	STM-42L : LVDS-VCC 12V DC AUDIO-VCC 12V DC Inverter 24V DC, 12V DC STM-32L : LVDS-VCC 12V DC AUDIO-VCC 12V DC Inverter 24V DC, 8V DC, 5V DC, 3.3V DC
Dimensions	STM-19LA : 430(W) x 421(H) x 200(D)mm 16.93"(W) x 16.57"(H) x 7.87"(D) STM-17LA : 382(W) x 390(H) x 200(D)mm 15.04"(W) x 15.35"(H) x 7.87"(D)	STM-19LM : 430(W) x 421(H) x 200(D)mm 16.93"(W) x 16.57"(H) x 7.87"(D) STM-17LM : 382(W) x 390(H) x 200(D)mm 15.04"(W) x 15.35"(H) x 7.87"(D)	STM-19LP : 430(W) x 421(H) x 200(D)mm 16.93"(W) x 16.57"(H) x 7.87"(D) STM-17LP : 382(W) x 390(H) x 200(D)mm 15.04"(W) x 15.35"(H) x 7.87"(D)	STM-42L : 1,063(W) x 730(H) x 120(D)mm 41.85"(W) x 28.74"(H) x 4.72"(D) STM-32L : 792(W) x 543.3(H) x 103.5(D)mm 31.18"(W) x 21.39"(H) x 4.07"(D)
Weight	STM-19LA : 6.61Kg (14.57 lb) STM-17LA : 6.2Kg (13.67 lb)	STM-19LM : 6.61Kg (14.57 lb) STM-17LM : 5.94Kg (13.1 lb)	STM-19LP : 6.5Kg (14.33 lb) STM-17LP : 5.85Kg (12.9 lb)	STM-42L : 31Kg (68.34 lb) STM-32L : 22.6Kg (49.82 lb)



MONITOR TERMS & FEATURES



Resolution

A measure of the ability of a camera or television system to reproduce detail. Typically refers to the number of picture elements that can be reproduced with good definition.

S-Video

Super Video is both a tape recording standard and a video transmission and interface standard. It offers much better horizontal resolution up to 400TV lines. This is mainly due to the color separation techniques. S-Video is usually associated with Y/C separated signals.

Contrast Ratio

Contrast ratio refers to the difference in light intensity between the whitest white and blackest black the monitor is able to produce. The higher the ratio, the better the color representation of the monitor. e.g. a 500:1 contrast ratio is significantly better than a 150:1 contrast ratio. A higher contrast ratio also means the monitor is better able to differentiate fine details in color.

Vivid Images as if they were in front of you...

If you are using high resolution Samsung Techwin cameras and DVRs, the monitors used in the system need to be capable of reproducing the added resolution. Samsung Techwin Monitors are engineered to match the high performance of our cameras and recording systems.

Samsung Techwin has a complete LCD monitor range to cover all security applications. To assist in choosing the correct monitor the range is divided into four distinct product families. Large-scale security systems and central monitoring stations are covered by the STM-42L and STM-32L models. The LA series of professional fully featured monitors are ideal for multi-display control rooms, while the LM series of utility monitors are designed for a wide variety of general applications. For cost conscious applications, the LP series of standard monitors are the ideal choice.

All Samsung Techwin's LCD monitors offer outstanding video performance, exceptionally high-resolution of SXGA (1280 x 1024) and WXGA (1366 x 768), superior contrast ratios and fast response times making them ideally suited for high-performance DVR applications. All monitors featured in our product line-up automatically select the input voltage, frequency and television standard (NTSC / PAL).

Response Time

Response time refers to the amount of time it takes for an liquid crystal cell (pixel) to switch from active to non-active, and is measured in milliseconds (ms). This is very important for applications that require fast moving (changing) images like video playback. An average LCD monitor has a response time of 25-40ms, which will result in significant image trailing while watching videos.

Viewing Angle

Viewing Angle describes the maximum angle at which an LCD monitor can reliably be viewed. Viewing angles have greatly improved over the years, and now nearly all LCD monitors support viewing angles of 150 degrees and above, which is more than acceptable in ordinary use. The best LCD monitors offer 160 degree viewing angle, making them nearly as good as CRT monitors.



STM-19LA/17LA

19", 17" TFT-LCD Color Monitor



Overview

Samsung Techwin's new STM-19LA and STM-17LA monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m², contrast ratio of up to 1,000 : 1 and a response time of 5ms. Moreover, these compact, slim units can be used standalone with their own desk stand or can be wall mounted by using our optional STM-LM wall mount. Both LCD models feature real glass screens protecting over the LCD panels, making them easy to clean without scratching.

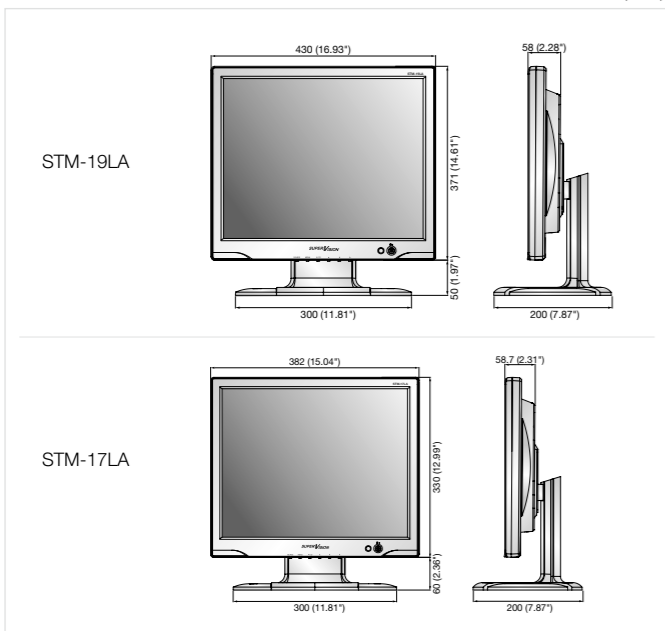


Features

- 1,280 x 1,024@75Hz resolution
- 800 : 1 High contrast ratio (STM-19LA)
1,000 : 1 High contrast ratio (STM-17LA)
- 300cd/m² High brightness
- 5ms Response time
- 2 BNC loop through, S-Video with loop-through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel
- Included power supply : 12V DC, 4.16A

Dimensions

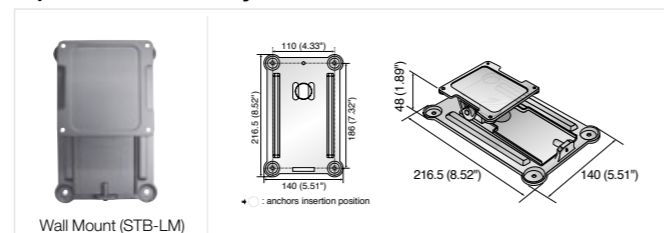
Unit : mm (inch)



Technical Specifications

	STM-19LA	STM-17LA	
Included Input	100V AC ~ 240V AC (50/60Hz)		
Power Supply Output	12V DC / 4.16A		
Power Consumption	Max. 42W	Max. 36W	
Panel	Screen Diagonal	19"	17"
	Max. Resolution	1,280 x 1,024@75Hz	
	Pixel Range	0.294mm x 0.294mm (0.012" x 0.012")	0.264mm x 0.264mm (0.01" x 0.01")
	Display Colors	16.7M	
	Contrast Ratio	800 : 1	1,000 : 1
	Viewing Angle	160° (Horizontal) / 160° (Vertical)	
Response Time	5ms		
Luminance	300cd/m ²		
Input Signal Input	Video : Analog RGB (0.714Vpp) 75 ohm, Composite (BNC), S-Video		
	Audio : Stereo line level input		
Connectors	15-pin Mini D-Sub, 3.5mm stereo, RCA x 2, S-Video, BNC x 2		
Output Signal Output	Video Composite out (BNC)		
Operating Temperature	0°C ~ 40°C		
Operating Humidity	10% ~ 80%		
Wall Mount (Option)	VESA 100 x 100mm (3.937" x 3.937")		
Display Surface	2.8mm (0.11") thick tempered glass		
Speaker	2W x 2W speaker		
Dimensions (WxHxD)	430 x 421 x 200mm (16.93" x 16.57" x 7.87")	382 x 390 x 200mm (15.04" x 15.35" x 7.87")	
Weight	6.61Kg (14.57 lb)	6.2Kg (13.67 lb)	
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)		

Optional Accessory



STM-19LM/17LM

19", 17" TFT-LCD Color Monitor



Overview

Samsung Techwin's new STM-19LM and STM-17LM monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m², contrast ratio of up to 1,000 : 1 and a response time of 5ms. Moreover, these compact, slim units can be used standalone with their own desk stand or can be wall mounted by using our optional STM-LM wall mount. Both LCD models feature real glass screens protecting over the LCD panels, making them easy to clean without scratching.

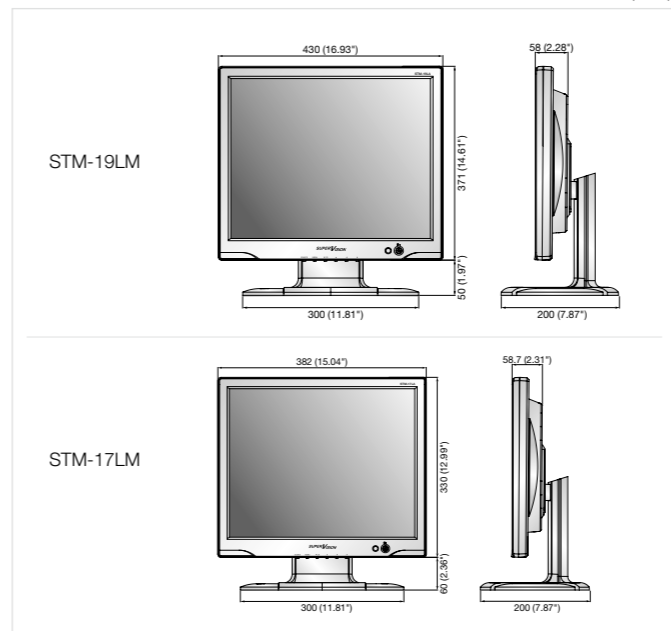


Features

- 1,280 x 1,024@75Hz resolution
- 800 : 1 High contrast ratio (STM-19LM)
1,000 : 1 High contrast ratio (STM-17LM)
- 300cd/m² High brightness
- 5ms Response time
- 2 BNC loop through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel
- Included power supply : 12V DC, 4A

Dimensions

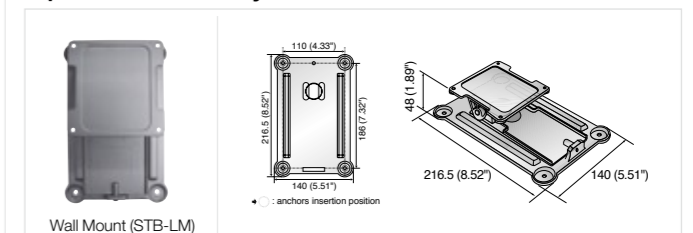
Unit : mm (inch)



Technical Specifications

	STM-19LM	STM-17LM	
Included Input	100V AC ~ 240V AC (50/60Hz)		
Power Supply Output	12V DC / 4A		
Power Consumption	Max. 42W	Max. 36W	
Panel	Screen Diagonal	19"	17"
	Max. Resolution	1,280 x 1,024@75Hz	
	Pixel Range	0.294mm x 0.294mm (0.012" x 0.012")	0.264mm x 0.264mm (0.01" x 0.01")
	Display Colors	16.7M	
	Contrast Ratio	800 : 1	1,000 : 1
	Viewing Angle	160° (Horizontal) / 160° (Vertical)	
Response Time	5ms		
Luminance	300cd/m ²		
Input Signal Input	Video : Analog RGB (0.714Vpp) 75 ohm, Composite (BNC)		
	Audio : Stereo line level input		
Connectors	15-pin Mini D-Sub, 3.5mm stereo, RCA x 2, BNC x 2		
Output Signal Output	Video Composite out (BNC)		
Operating Temperature	0°C ~ 40°C		
Operating Humidity	10% ~ 80%		
Wall Mount (Option)	VESA 100 x 100mm (3.937" x 3.937")		
Display Surface	2.8mm (0.11") thick tempered glass		
Speaker	2W x 2W speaker		
Dimensions (WxHxD)	430 x 421 x 200mm (16.93" x 16.57" x 7.87")	382 x 390 x 200mm (15.04" x 15.35" x 7.87")	
Weight	6.61Kg (14.57 lb)	5.94Kg (13.1 lb)	
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)		

Optional Accessory





STM-19LP/17LP

19", 17" TFT-LCD Monitor for DVRs



Overview

Samsung Techwin's STM-19LP and STM-17LP monitors deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m², a contrast ratio of 1,000 : 1 and a response time of 5ms. The LCDs are slim, lightweight, and require less power and space. Moreover, these units can be installed on a wall with optional wall mounts (STB-LM) with ease enabling high space efficiency. Both LCD models feature real glass screens protecting the LCD panels, making them easy to clean without scratching.

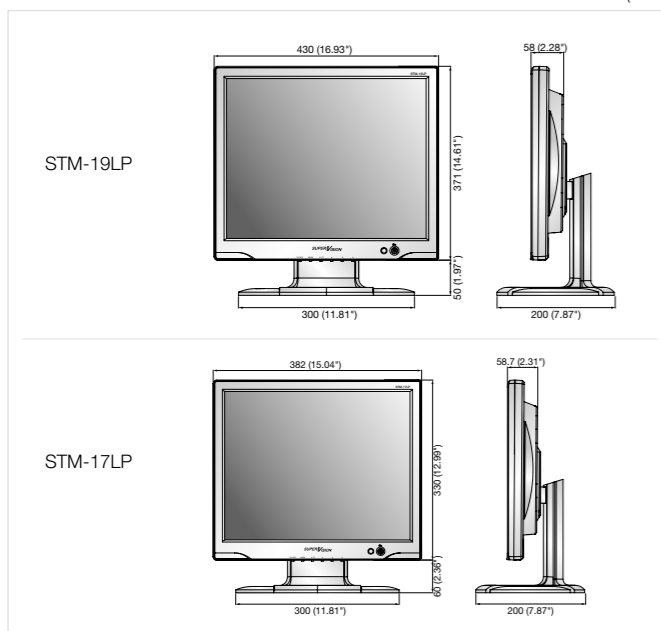


Features

- 1,280 x 1,024@75Hz resolution
- 800 : 1 High contrast ratio (STM-19LP)
- 1,000 : 1 High contrast ratio (STM-17LP)
- 300cd/m² High brightness
- 5ms Response time
- RGB Input support for DVRs
- Protecting glass
- Included power supply : 12V DC, 4A

Dimensions

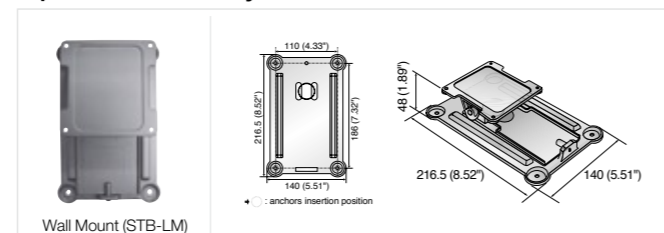
Unit : mm (inch)



Technical Specifications

		STM-19LP	STM-17LP
Included	Input	100V AC ~ 240V AC (50/60Hz)	
	Output	12V DC / 4A	
Power Supply		Max. 42W	Max. 36W
Panel	Screen Diagonal	19"	17"
	Max. Resolution	1,280 x 1,024@75Hz	
	Pixel Range	0.294mm x 0.294mm (0.012" x 0.012")	0.264mm x 0.264mm (0.01" x 0.01")
	Display Colors	16.7M	
	Contrast Ratio	800 : 1	1,000 : 1
	Viewing Angle	160° (Horizontal) / 160° (Vertical)	
	Response Time	5ms	
Frequency	Luminance	300cd/m ²	
	Horizontal	31KHz ~ 80KHz	
Video	Vertical	56Hz ~ 77Hz	55Hz ~ 77Hz
	Input	VGA	
Signal	Video	1ch input	
Operating Temperature		0°C ~ 40°C	
Operating Humidity		10% ~ 80%	
Wall Mount (Option)		VESA 100 x 100mm (3.937" x 3.937")	
Display Surface		2.8mm (0.11") thick tempered glass	
Dimensions (WxHxD)	Horizontal	430 x 421 x 200mm (16.93" x 16.57" x 7.87")	382 x 390 x 200mm (15.04" x 15.35" x 7.87")
	Weight	6.5Kg (14.33 lb)	5.85Kg (12.9 lb)
Certifications		FCC (Class A)	

Optional Accessory



STM-42L/32L

42", 32" TFT-LCD Color Monitor

Overview

Samsung Techwin's newest STM-42L and STM-32L monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 500cd/m², contrast ratio of up to 3,000 : 1 and a response time of 8ms. Moreover, these wide screen, slim line units provide outstanding quality images. Both LCD models feature real glass screens protecting the LCD panels, making them easy to clean without scratching.

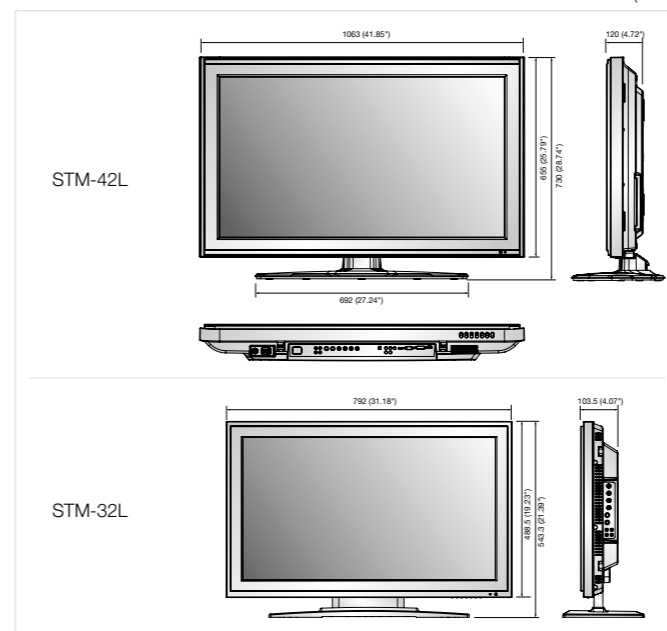


Features

- 1,366 x 768@60Hz resolution
- 1,100 : 1 High contrast ratio (STM-42L)
- 3,000 : 1 High contrast ratio (STM-32L)
- 500cd/m² High brightness
- 5ms Response time (STM-42L)
- 8ms Response time (STM-32L)
- 2 BNC loop through, S-Video with loop-through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel

Dimensions

Unit : mm (inch)




Technical Specifications

		STM-42L	STM-32L
Power Supply	Input	100V AC ~ 240V AC (50/60Hz)	
	Output	LVDS-VCC 12V DC AUDIO-VCC 12V DC Inverter 24V DC, 12V DC	LVDS-VCC 12V DC AUDIO-VCC 12V DC Inverter 24V DC, 8V DC, 5V DC, 3.3V DC
Power Consumption		Max. 220W	Max. 150W
Panel	Screen Diagonal	42"	32"
	Max. Resolution	1,366 x 768@60Hz	
	Pixel Range	0.227mm x 0.681mm (0.009" x 0.027")	0.17mm x 0.51mm (0.007" x 0.02")
	Display Colors	16.7M	
	Contrast Ratio	1,100 : 1	3,000 : 1
	Viewing Angle	178° (Horizontal) / 178° (Vertical)	
Input Signal	Response Time	5ms	8ms
	Luminance	500cd/m ²	
Video	Video	Analog RGB 75 ohm (15pin), Composite (BNC) x 2	
	Audio	S-Video Component, DVI-D, HDMI, Trigger	
Output Signal	Video	Stereo line level input, S-Video	
	Audio	Video Composite out (BNC) x 2	
Operating Temperature		0°C ~ 40°C	
Operating Humidity		10% ~ 80%	
Wall Mount (Option)		130 x 130mm (5.12" x 5.12")	
Display Surface		3.2mm (0.13") thick tempered glass	
Dimensions (WxHxD)	Speaker	7W x 7W speaker	2W x 2W speaker
	Dimensions (WxHxD)	1,063 x 730 x 120mm (41.85" x 28.74" x 4.72")	792 x 543.3 x 103.5mm (31.18" x 21.39" x 4.07")
Weight		31Kg (68.34 lb)	22.6Kg (49.82 lb)




APPLICATION GUIDES

Small Businesses

 A busy convenience store which has heavy traffic, and a jewelry store which deals with expensive items are highly exposed to unexpected incidents and potential criminal activities. These small stores can prevent theft and check the display of items by installing digital CCTV in important areas within the store. When there is an incident, the system also helps you to understand and deal with the situation through the use of digital recording. Remote real-time inspection of stores can be done through the internet even when you are not working inside the facility.



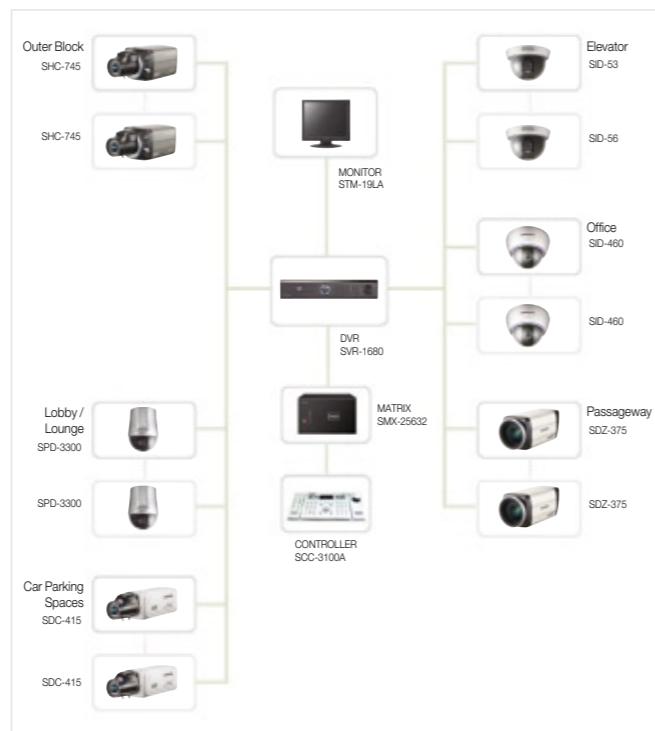
Residential Areas

 Residential complexes have a number of needs that can be satisfied with a properly designed video security system. Whether it is watching parking and other common areas for suspicious activity, controlling parking, or just to ensure that everything is normal, a CCTV system can make one security officer as effective as five or six.




Factories

 For industrial facilities such as factories, various systems have been designed to suit any type of business. The digital CCTV system enables you to check the operations of automatic machines, to monitor visitors at entrances, to monitor progress in production, to provide unmanned security around factories and to prevent incidents.




Buildings

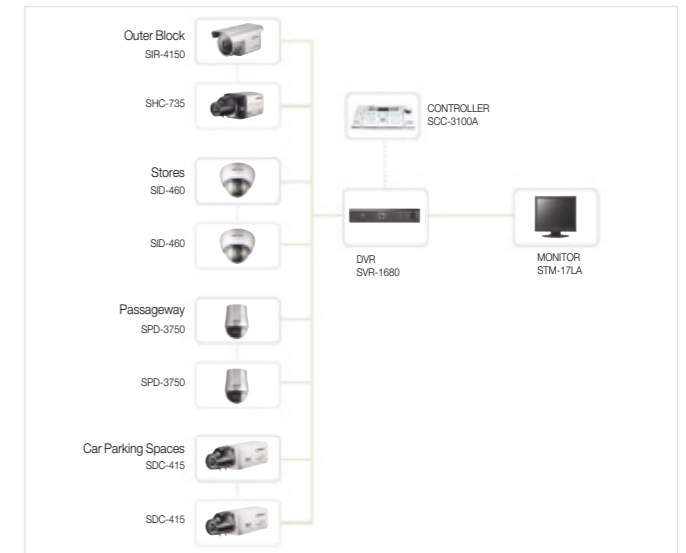
 CCTV can monitor people who enter buildings, staff movement within buildings and other situations. It also monitors escalator/elevator operations to prevent incidents. Moreover, it helps to observe traffic and other situations in order to prevent any incidents inside and outside of car parking spaces.



APPLICATION GUIDES

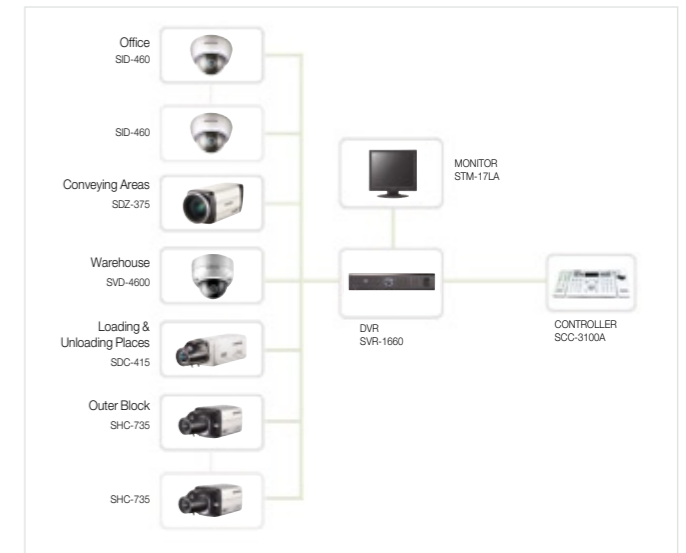
Department Stores / Shopping Malls

 Installation of digital CCTV in stores / passageways / car parking spaces helps improve security for customers, prevent theft of goods, check the display of items, and helps to understand and deal with situations quickly via digital recording if any theft or incident occurs. A special performance product can provide customers with 24 hour security in convenience facilities such as above-ground/underground car parking spaces which are often blind spots for security.




Warehouses

 A video security system is required in order to support routes and provide safety for transporting goods and during vehicle loading and unloading. The system is also used for monitoring areas which require observation and access control for important items in warehouses. It helps prevent incidents due to moving vehicles and achieves safe operation by monitoring workers, machine operations and as night-time security surveillance. It enables you to manage and observe the warehouse to prevent losses and to function as an efficient storage facility.



Financial Facilities

 In financial facilities, CCTV systems are mainly used for observing entrances, areas where cash is handled, vaults, customer lobbies, parking spaces and surrounding areas in order to prevent crime. Therefore, if there is an incident, the suspect's appearance can be recognized and the incident dealt with quickly. It also helps prevent a potential dispute by identifying minor incidents such as monetary mistakes by cashiers. Moreover, the system acts as a deterrent to criminals from committing criminal activities in the facilities which are known to have the system installed. There are many cases in which the system plays a vital role in solving minor incidents such as refusal of withdrawal or cash receipts, errors in withdrawal amounts and unauthorized withdrawals from accounts as well as the arrest of criminals.

