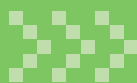Your source for Professional Video Security Solutions

DVR
Samsung Digital Security Systems

SAMSUNG TECHWIN

SAMSUNG

DVR SELECTION

	SVR-3200	SVR-1680C	SVR-1660C
OS	Embedded Linux	Embedded Linux	Embedded Linux
Display Rate	960fps(N), 800fps(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)
Codec	MPEG-4	MPEG-4	MPEG-4
Video Input	32 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)
Simultaneous MPEG-4/JPEG Streaming	Yes	Yes	Yes
Internal HDD	4 HDDs	4 HDDs	4 HDDs
External HDD	Up to 2 expansion bay	Up to 2 expansion bay	Up to 2 expansion bay
DVD	Yes	Yes	Yes
Audio Input / Output	16 / 1	16 / 1	16 / 1
Alarm Input / Output	16 / 4	16 / 4	16 / 4
Max. Remote Users	10 Simultaneously	10 Simultaneously	10 Simultaneously
Network Transport Speed	Up to 16Mbps	Up to 16Mbps	Up to 9Mbps
Viewer Application	SNM-128S/P	SNM-128S/P	SNM-128S/P
ATM / POS	Yes	Yes	Yes
PTZ Control	Yes	Yes	Yes
Mouse	Yes	Yes	Yes

	SVR-1645	SVR-960C	SVR-945
OS	Embedded Linux	Embedded Linux	Embedded Linux
Display Rate	480fps(N), 400fps(P)	270fps(N), 225fps(P)	270fps(N), 225fps(P)
Recording Rate	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) 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)
Codec	MPEG-4	MPEG-4	MPEG-4
Video Input	16 Channels	9 Channels	9 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)
Simultaneous MPEG-4/JPEG Streaming	Yes	Yes	Yes
Internal HDD	2 HDDs	2 HDDs	2 HDDs
External HDD	1 expansion bay	1 expansion bay	1 expansion bay
DVD	Yes	Yes	N/A
Audio Input / Output	16 / 1	9 / 1	9 / 1
Alarm Input / Output	16 / 4	9 / 4	9 / 4
Max. Remote Users	10 Simultaneously	10 Simultaneously	10 Simultaneously
Network Transport Speed	Up to 9Mbps	Up to 16Mbps	Up to 9Mbps
Viewer Application	SNM-128S/P	SNM-128S/P	SNM-128S/P
ATM / POS	Yes	Yes	Yes
PTZ Control	Yes	Yes	Yes
Mouse	Yes	Yes	Yes

DVR SELECTION

	SVR-940	SVR-480	SVR-470
OS	RTOS	Embedded Linux	Embedded Linux
Display Rate	270fps(N), 225fps(P)	120fps(N), 100fps(P)	120fps(N), 100fps(P)
Recording Rate	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	H.264
Video Input	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)
Simultaneous MPEG-4/JPEG Streaming	N/A	N/A	N/A
Internal HDD	2 HDDs	1 HDD	1 HDD
External HDD	N/A	N/A	N/A
DVD	Yes (CD-RW)	Yes	N/A
Audio Input / Output	4 / 1	4 / 1	4 / 1
Alarm Input / Output	9 / 4	4 / 1	4 / 1
Max. Remote Users	4 Simultaneously	4 Simultaneously	4 Simultaneously
Network Transport Speed	Up to 16Mbps	Up to 16Mbps	Up to 16Mbps
Viewer Application	SNM-64S/P	SNM-64S/P	SNM-64S/P
ATM / POS	Yes	Yes	Yes
PTZ Control	Yes	Yes	Yes
Mouse	N/A	N/A	N/A

|	SVR-450	SVR-440
OS	RTOS	RTOS
Display Rate	20fps(N), 100fps(P)	120fps(N), 100fps(P)
Recording Rate	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
Video Input	4 Channels	4 Channels
Max. Resolution	704 x 480(N), 704 x 588(P)	704 x 480(N), 704 x 588(P)
Simultaneous MPEG-4/JPEG Streaming	N/A	N/A
Internal HDD	1 HDD	1 HDD
External HDD	N/A	N/A
DVD	Yes	N/A
Audio Input / Output	4 / 1	4 / 1
Alarm Input / Output	4 / 1	4 / 1
Max. Remote Users	4 Simultaneously	4 Simultaneously
Network Transport Speed	Up to 16Mbps	Up to 16Mbps
Viewer Application	SNM-64S/P	N/A
ATM / POS	Yes	N/A
PTZ Control	Yes	N/A
Mouse	N/A	N/A

DVR

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.
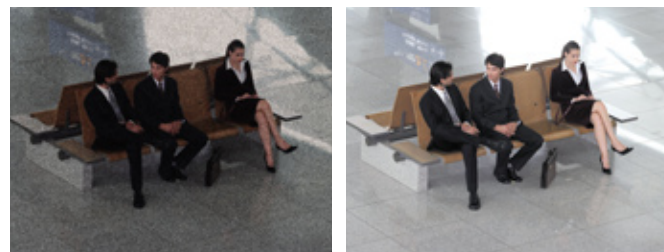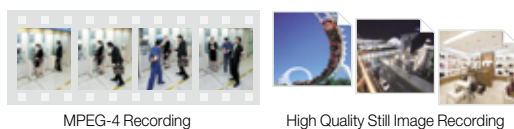

CIF (352 x 240) D1 (704 x 480)

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.
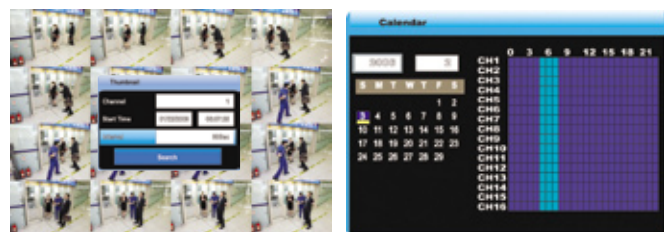
Thumbnail Search Thumbnail Search

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.
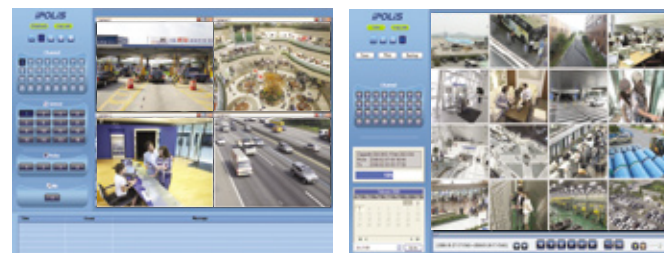

Alarm control station (Window for alarm status control only)

• Instant viewer, Live image indication
• Instant player, Recorded image playback (DVR only)
• Alarm status check and add incident response comments to events

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-1680C
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-1660C
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-960C
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-480/470/450
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

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 — Unit : Days

704 x 576 FPS	Q5	Q4	Q3	Q2	Q1
400	0.5	0.6	0.8	1.1	1.8
200	0.7	0.8	1.1	1.4	2.3
100	0.8	1.1	1.4	1.9	2.8
50	1.2	1.4	1.8	2.3	3.3
25	1.8	2.1	2.6	3.5	5.1

704 x 288 FPS	Q5	Q4	Q3	Q2	Q1
800	0.6	0.8	1.0	1.4	2.2
400	0.9	1.1	1.3	1.8	2.7
200	1.2	1.4	1.8	2.3	3.3
100	1.5	1.8	2.1	2.7	3.6
50	2.2	2.6	3.2	4.1	5.8
25	3.0	3.6	4.3	5.4	7.3

SVR-1680C
Installed Hard Disk : 500GB — Unit : Days

704 x 576 FPS	Q5	Q4	Q3	Q2	Q1
400	0.7	0.8	1.1	1.6	2.7
200	0.9	1.2	1.5	2.1	3.5
100	1.3	1.6	2.1	2.9	4.6
50	1.7	2.1	2.6	3.5	5.4
25	2.5	3.1	3.9	5.3	8.3
12.5	3.5	4.2	5.3	7.1	10.8

704 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	0.9	1.1	1.4	2.0	3.4
200	1.2	1.5	1.9	2.6	4.3
100	1.7	2.1	2.6	3.5	5.4
50	2.2	2.6	3.2	4.2	6.2
25	3.2	3.9	4.8	6.5	9.7
12.5	4.5	5.3	6.6	8.6	12.5

SVR-1660C
Installed Hard Disk : 500GB — Unit : Days

352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	1.4	1.8	2.4	3.6	7.2
200	2.1	2.6	3.4	5.2	10.3
100	3.1	3.8	5.1	7.7	15.3
50	4.1	5.1	6.8	10.2	20.4
25	5.8	7.3	9.7	14.5	29.2
12.5	8.3	10.4	13.9	20.8	41.6

SVR-1645
Installed Hard Disk : 500GB — Unit : Days

352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	1.4	1.8	2.4	3.6	7.2
200	2.1	2.6	3.4	5.2	10.3
100	3.1	3.8	5.1	7.7	15.3
50	4.1	5.1	6.8	10.2	20.4
25	5.8	7.3	9.7	14.5	29.2
12.5	8.3	10.4	13.9	20.8	41.6

SVR-960C
Installed Hard Disk : 500GB — Unit : Days

352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
225	2.6	3.2	4.3	6.4	12.9
198	2.8	3.5	4.6	6.9	13.8
112.5	3.7	4.6	6.1	9.2	18.4
72	4.5	5.7	7.5	11.3	22.7
56	5.4	6.8	9.1	13.6	27.2
28	7.3	9.1	12.1	18.1	36.2
14	10.4	13.0	17.3	25.8	52.0

SVR-945
Installed Hard Disk : 500GB — Unit : Days

352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
225	2.6	3.2	4.3	6.4	12.9
198	2.8	3.5	4.6	6.9	13.8
112.5	3.7	4.6	6.1	9.2	18.4
72	4.5	5.7	7.5	11.3	22.7
56	5.4	6.8	9.1	13.6	27.2
28	7.3	9.1	12.1	18.1	36.2
14	10.4	13.0	17.3	25.8	52.0

SVR-940
Installed Hard Disk : 250GB — Unit : Days

704 x 576 FPS	SUPER	HIGH	NORMAL
18	2.8	8.6	12.6
9	6.1	14.6	22.7

704 x 288 FPS	SUPER	HIGH	NORMAL
45	2.5	7.3	10.3
27	3.9	9.5	14.5
9	6.4	18.8	26.9

352 x 288 FPS	SUPER	HIGH	NORMAL
100	2.6	7.9	12.0
45	4.4	12.4	16.6
9	10.4	28.4	45.4

SVR-480/470/450
Installed Hard Disk : 250GB — Unit : Days

704 x 576 FPS	SUPER	HIGH	NORMAL
24	6.50	19.49	25.99
16	7.37	22.12	29.49
12	7.96	23.88	31.84
4	9.65	28.94	38.58

352 x 288 FPS	SUPER	HIGH	NORMAL
100	6.70	20.09	26.79
68	8.48	25.43	33.91
52	9.78	29.33	39.10
4	18.08	54.25	72.34

SVR-440
Installed Hard Disk : 160GB — Unit : Days

704 x 576 FPS	SUPER	HIGH	NORMAL
24	4.16	12.48	16.64
16	4.72	14.16	18.87
12	5.09	15.28	20.37
4	6.17	18.52	24.69

| 352 x 288 FPS	SUPER	HIGH	NORMAL
100	4.29	12.86	17.15
68	5.43	16.28	21.70
52	6.26	18.77	25.03
4	11.57	34.72	46.30

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.
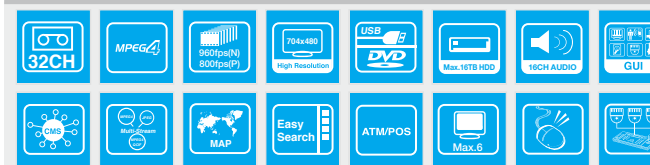
Features

- 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   • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

Dimensions

Unit : mm (inch)
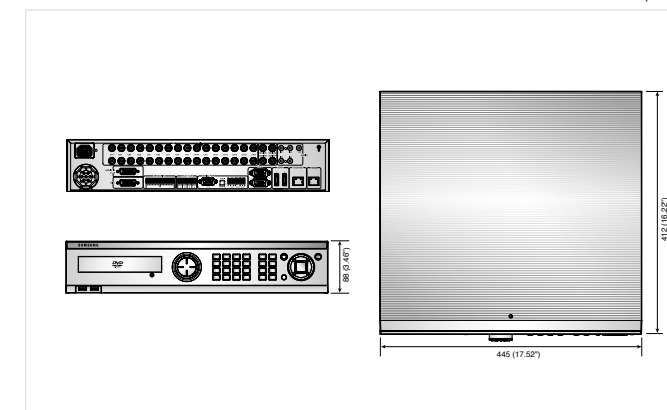
Technical Specifications

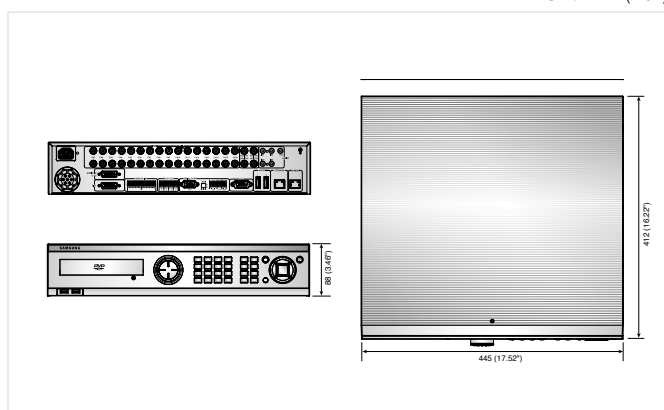|		SVR-3200	
DISPLAY			
Video	Inputs	32 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
Video	Resolution	NTSC : 704 x 480	PAL : 704 x 576
Video	Frame Rate	NTSC : 960fps	PAL : 800fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
Live	Multi Screen Display	1 / 4 / 9 / 10 / 16	
PERFORMANCE			
Recording	Compression	MPEG-4	
Recording	Record Rate	NTSC	PAL
		Up to 480fps@704 x 480	Up to 400fps@704 x 576
		Up to 960fps@704 x 240	Up to 800fps@704 x 288
		Up to 960fps@352 x 240	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	
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	
	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			
Monitors	VGA	Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution, 2VGA	
	Main Composite	2 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Sub Composite	2 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	
	Loop Outputs	N/A	
Audio	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	
Connections	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	2 External SATA ports	
	Application Support	ATM/POS, Mouse, Remote controller	
Dome Protocols	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	
Mechanical	Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")	
	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-1680C

16 Channel Premium DVR with 480fps at full D1 resolution

FC | c(UL)us LISTED | CE

Overview

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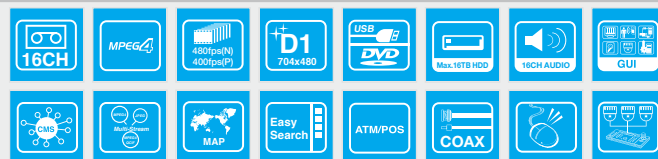
Features

- 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
- PTZ control using coax cable

Technical Specifications

		SVR-1680C	
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			
Recording	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 480fps@704 x 480	Up to 400fps@704 x 576
		Up to 480fps@704 x 240	Up to 400fps@704 x 288
		Up to 480fps@352 x 240	Up to 400fps@352 x 288
	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	
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	
	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			
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	
	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	
	Loop Outputs	16 Composite video 1 Vpp, 75 ohm	
Audio	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	
Connections	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	2 External SATA ports	
	Application Support	ATM/POS, Mouse, Remote controller	
Dome Protocols	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	
Mechanical	Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")	
	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)

412 (16.22")
88 (3.46")
445 (17.52")

SVR-1660C

16 Channel DVR with 480fps at CIF resolution

FC | c(UL)us LISTED | CE

Overview

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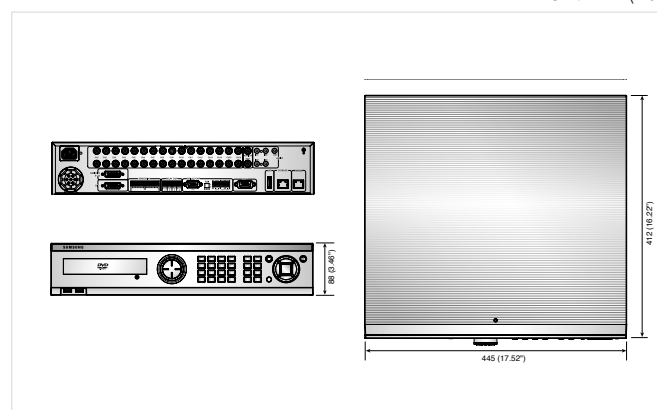
Features

- 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
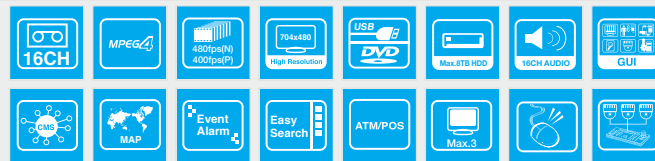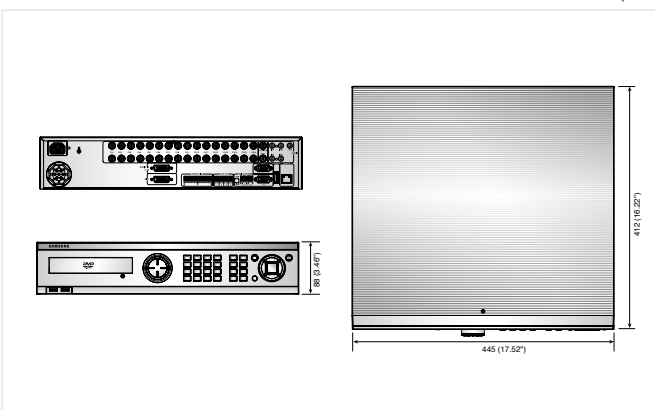- PTZ control using coax cable

Technical Specifications

		SVR-1660C	
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			
Recording	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 120fps@704 x 480	Up to 100fps@704 x 576
		Up to 240fps@704 x 240	Up to 200fps@704 x 288
		Up to 480fps@352 x 240	Up to 400fps@352 x 288
	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	
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	
	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			
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	
	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	
	Loop Outputs	16 Composite video 1 Vpp, 75 ohm	
Audio	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	
Connections	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	2 External SATA ports	
	Application Support	ATM/POS, Mouse, Remote controller	
Dome Protocols	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	
Mechanical	Dimensions (WxHxD)	445 x 88 x 412mm (17.52" x 3.46" x 16.22")	
	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)

412 (16.22")
88 (3.46")
445 (17.52")

DVR

SVR-1645

16 Channel DVR

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.

Acknowledged as 'Recommended'
by Benchmark Magazine's Independent Testing

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
- 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

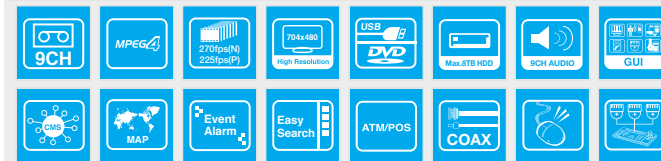|		SVR-1645	
DISPLAY			
Video	Inputs	16 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Frame Rate	NTSC : 480fps	PAL : 400fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4 / 9 / 10 / 16	
PERFORMANCE			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 120fps@704 x 480	Up to 100fps@704 x 576
		Up to 240fps@704 x 240	Up to 200fps@704 x 288
Recording		Up to 480fps@352 x 240	Up to 400fps@352 x 288
	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	
	Sub 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	
Dome Protocols	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-960C

9 Channel DVR

Overview

The SVR-960C 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.
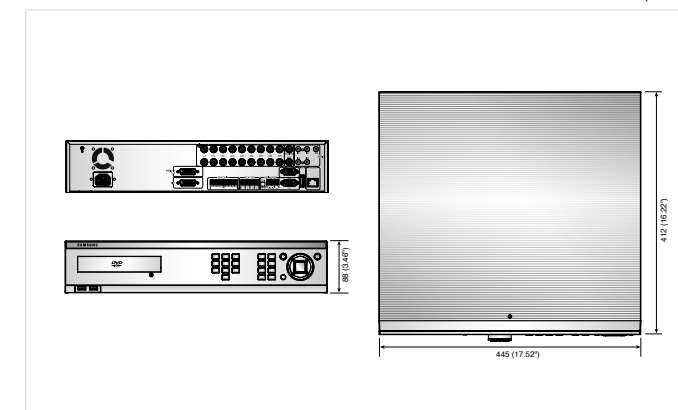
Features

- 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

Dimensions
Unit : mm (inch)

Technical Specifications

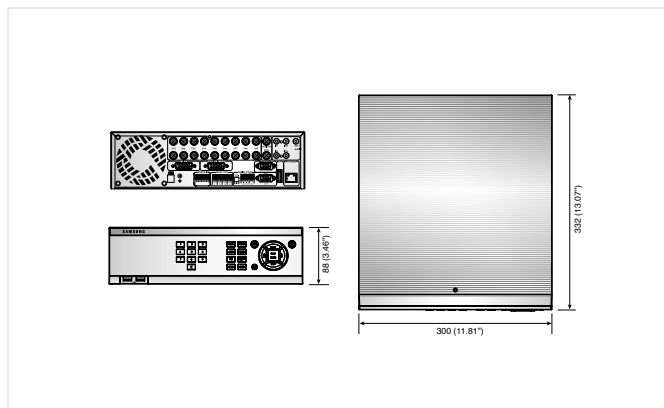|		SVR-960C	
DISPLAY			
Video	Inputs	9 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Frame Rate	NTSC : 270fps	PAL : 225fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4 / 9 / 10 / 16	
PERFORMANCE			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 120fps@704 x 480	Up to 100fps@704 x 576
		Up to 240fps@704 x 240	Up to 200fps@704 x 288
Recording		Up to 270fps@352 x 240	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 & 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 16TB 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	
	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu	
	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	
	Inputs	Terminal 9 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 ports	
	Application Support	ATM/POS, Mouse, Remote controller	
Dome Protocols	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 (4X 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)	

DVR

SVR-945

9 Channel Compact DVR

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.
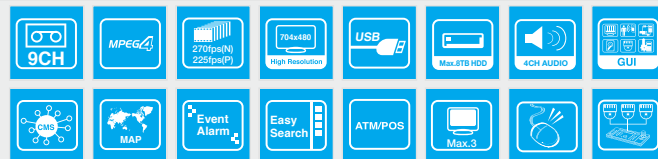
Features

- 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)

300 (11.81")

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			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 120fps@704 x 480	Up to 100fps@704 x 576
		Up to 240fps@704 x 240	Up to 200fps@704 x 288
Recording		Up to 270fps@352 x 240	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 &	Search Mode	Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer)	
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 (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	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	
	Sub 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	
	Inputs	Terminal 9 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	
Dome Protocols	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

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.
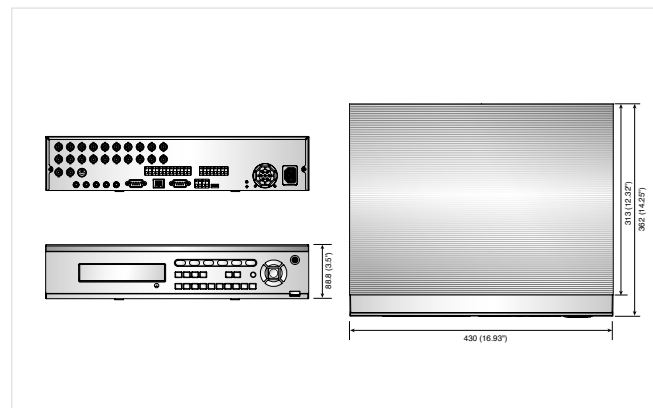
Features

- 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)
- 10/100 base-T network interface capability
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

Dimensions

Unit : mm

430 (16.93")

Technical Specifications

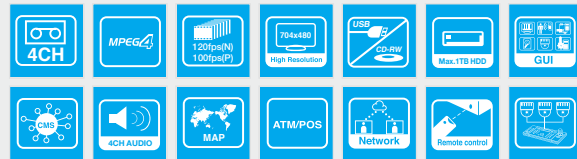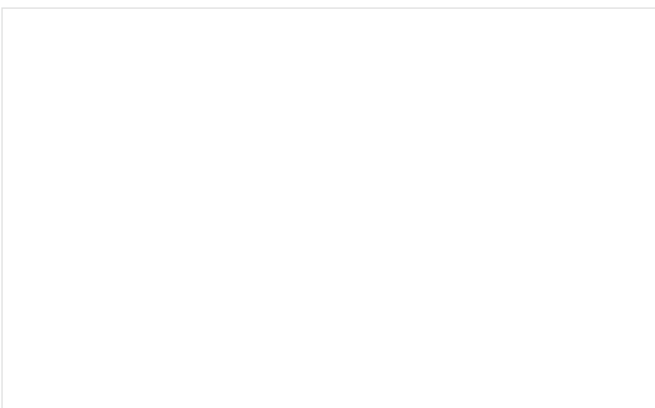|		SVR-940	
DISPLAY			
Video	Inputs	9 Composite video 0.5-2 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Frame Rate	NTSC : 270fps	PAL : 225fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4 / 9	
PERFORMANCE			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
		Up to 60fps@704 x 240	Up to 50fps@704 x 288
Recording		Up to 120fps@352 x 240	Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 3sec	
	Post-alarm	Up to 20sec	
Search &	Search Mode	Date/Time, Event (Motion, Sensor, TEXT)	
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	
	Maximum Capacity	2TB	
	Internal HDD	Up to 2 PATA HDDs	
Storage	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			
	VGA	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
Monitors	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Sub 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	
	Inputs	Terminal 9 inputs, NO/NC	
Alarm	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	
Dome Protocols	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)	

DVR

SVR-480 `NEW`

4 Channel Compact DVR

FC CE

Overview

The SVR-480 is a 4-channel standalone digital recording device that records high resolution videos in full D1 based on MPEG-4 compression. With enhanced MPEG-4 compression capabilities, this recorder supports high resolution images as well as saves and plays high resolution video feed from up to 16 channels at maximum 480fps. This recorder also helps establish effective central management for DVRs and network systems, as it comes with a powerful CMS program that is capable of managing up to 128 channels simultaneously. The high-speed DVD back up option allows easier data transfers and storage, and a variety of enhanced search options such as Thumbnail and Bookmark are provided to search and play videos more quickly and accurately.

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-480	
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			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
Recording		Up to 120fps@352 x 240	Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 3sec	
	Post-alarm	Up to 20sec	
Search & Playback	Search Mode	Date/Time, Event (Motion, Sensor, Text)	
	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	1TB	
	Internal HDD	Up to 1 PATA HDD	
	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	
	Sub Composite	N/A	
	Loop Outputs	N/A	
Audio	Inputs	4 Line in, 30K ohm	
	Output	1 Line, 100K ohm	
	Compression	ADPCM	
	Sampling Rate	16KHz	
Alarm	Inputs	Terminal 4 inputs, NO/NC	
	Outputs	Terminal 1 relay outputs	
	Remote Notification	Notification via e-mail	
	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
Connections	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	N/A	
	Application Support	ATM/POS, Remote controller	
Dome Protocols	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	
Mechanical	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	
Language		English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean	
Certifications		FCC (Class A), CE (Class A)	

SVR-470 `NEW`

## 4 Channel DVR with Built-In LCD

FC CE

Overview

The SVR-470 is a 4 channel standalone digital video recorder with a built-in LCD. With H.264 compression, this video recorder transfers and records high resolution 704 x 480 images at 120fps in real time to its default internal 320GB hard disk. USB terminals facilitate convenient data back up while the front LCD window enables easy monitoring. A variety of user-friendly options including a GUI menu, multiple language OSD, ATM-POS text saving options, and remote control are provided along with an exclusive Network Manager program to help establish a reliable and convenient high performance security system that can manage up to 128 channels simultaneously.
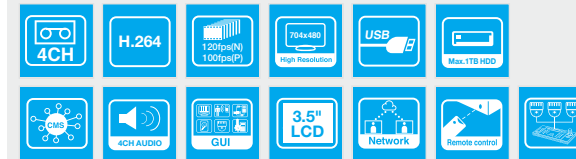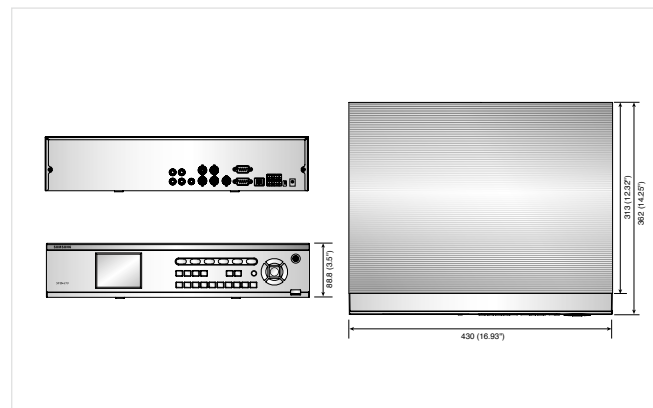
Features

- True real-time 120fps(N), 100fps(P) digital image display
  120fps(N), 100fps(P) digital video recording
- H.264 & Convenient GUI Menu
- 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
- 3.5" LCD Window for Easy Monitoring
- 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

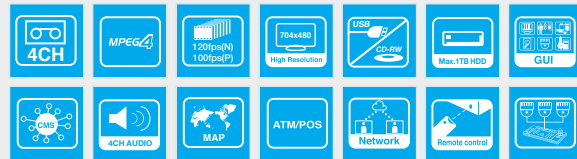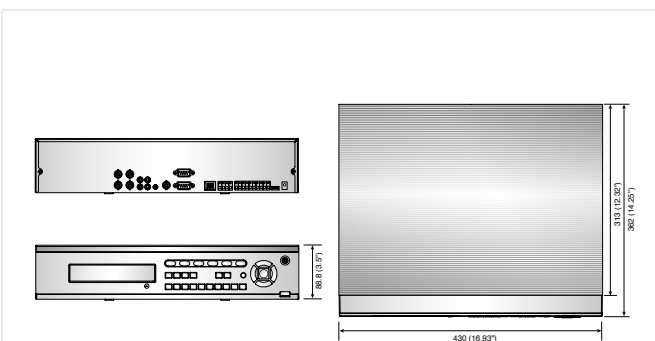|		SVR-470	
DISPLAY			
Video	Inputs	4 Composite video 1 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Frame Rate	NTSC : 120fps	PAL : 100fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4	
PERFORMANCE			
	Compression	H.264	
		NTSC	PAL
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
Recording		Up to 120fps@352 x 240	Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 3sec	
	Post-alarm	Up to 20sec	
Search & Playback	Search Mode	Date/Time, Event (Motion, Sensor, TEXT)	
	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	1TB	
	Internal HDD	Up to 1 PATA HDD	
	External HDD	N/A	
	DVD Writer (Back up)	N/A	
	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	Display LCD	3.5"	
	VGA	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Sub Composite	N/A	
	Loop Outputs	N/A	
Audio	Inputs	4 Line in, 30K ohm	
	Output	1 Line, 100K ohm	
	Compression	ADPCM	
	Sampling Rate	16KHz	
Alarm	Inputs	Terminal 4 inputs, NO/NC	
	Outputs	Terminal 1 relay outputs	
	Remote Notification	Notification via e-mail	
	Ethernet	RJ-45 10/100 Base-T	
	Serial Interface	RS-232C	
Connections	PTZ Control Interface	RS-485/422	
	PTZ Keyboard	RS-485, Max. signal voltage ±12V	
	USB	USB 2.0	
	eSATA	N/A	
	Application Support	ATM/POS, Remote controller	
Dome Protocols	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	
Mechanical	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	
Language		English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean	
Certifications		FCC (Class A), CE (Class A)	

DVR

SVR-450

4 Channel DVR

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

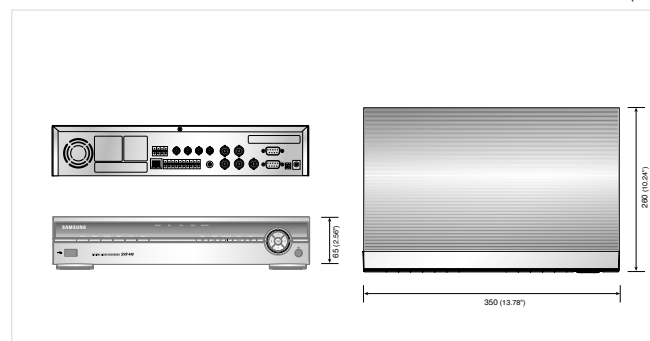|		SVR-450	
DISPLAY			
Video	Inputs	4 Composite video 1 Vpp, 75 ohm automatic termination	
	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Frame Rate	NTSC : 120fps	PAL : 100fps
Live	Resolution	NTSC : 704 x 480	PAL : 704 x 576
	Multi Screen Display	1 / 4	
PERFORMANCE			
	Compression	MPEG-4	
		NTSC	PAL
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
Recording		Up to 120fps@352 x 240	Up to 100fps@352 x 288
	Mode	Manual, Schedule, Event	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 3sec	
	Post-alarm	Up to 20sec	
Search & Playback	Search Mode	Date/Time, Event (Motion, Sensor, TEXT)	
	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	
	Maximum Capacity	1TB	
	Internal HDD	Up to 1 PATA HDD	
	External HDD	N/A	
Storage	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			
	VGA	Analog RGB 800 x 600 resolution, VGA/BNC selectable	
Monitors	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback	
	Sub Composite	N/A	
	Loop Outputs	N/A	
	Inputs	4 Line in, 30K ohm	
Audio	Output	1 Line, 100K ohm	
	Compression	ADPCM	
	Sampling Rate	16KHz	
Alarm	Inputs	Terminal 4 inputs, NO/NC	
	Outputs	Terminal 1 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	
Dome Protocols	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	
Mechanical	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	
Language		English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean	
Certifications		FCC (Class A), CE (Class A)	

SVR-440

4 Channel Compact DVR

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.
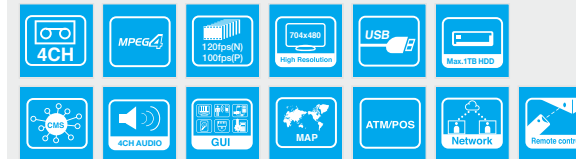
Features

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

DVR

SVS-5R/5E

RAID 5 Unit / HDD Extension Unit

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.

SVS-5R

SVS-5E

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 SATA 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	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-3200/1680C/1660C/1645/960C/945	
Certifications	FCC (Class A), UL/cUL listed, CE (Class A)	

Dimensions

Unit : mm

SVS-5R

SVS-5E
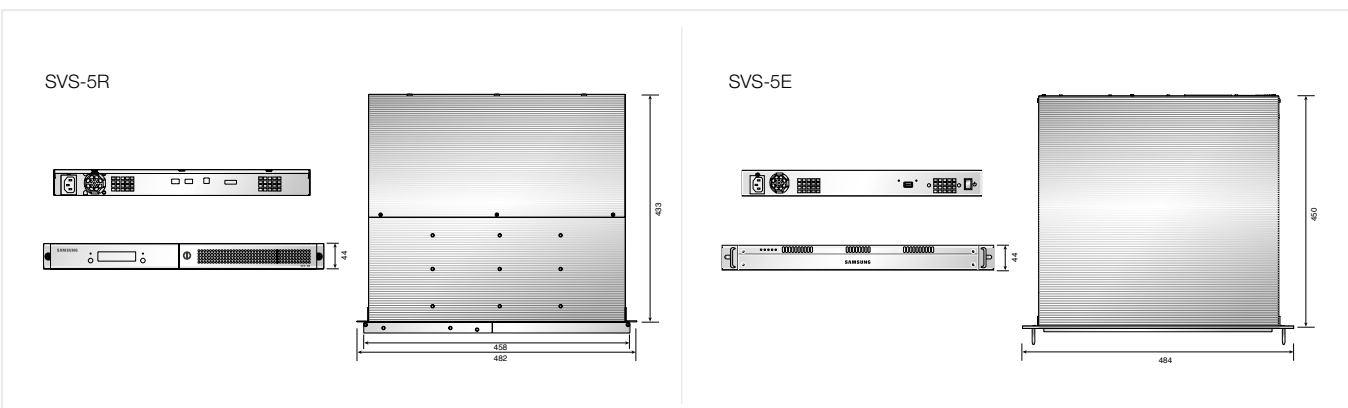
NETWORK
Samsung Digital Security Systems

SAMSUNG TECHWIN

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.

Analog CCTV System

STM-19LA Monitor

Analog CCTV Camera

Multiplexer

SHC-735

SHC-735

SID-560

SVR-1680 DVR

SPD-3750

iPOLiS Security System

SND-560

SNP-1000A

Retail

Hospital

Network Camera

SNC-570

Factory

SNS-400 Network Encoder

IP NETWORK

Warehouse

SNP-3300A

SNR-6400 Network recorder

Internet

PC with Video Management S/W

PC with Web browser

PC with Web browser

Home

Office

Cafe

NETWORK SELECTION

	NETWORK VIDEO RECORDER	NETWORK VIDEO ENCODER	NETWORK CAMERA					
	SNS-6400/3200	SNS-400/100	SNC-1300	SNC-570	SND-560	SND-460V	SNP-3300A	SNP-1000A
Hardware OS	Embedded Linux							
Codec	MPEG-4/JPEG full dual codec	MPEG-4/JPEG compression	MPEG-4/JPEG full dual codec				MPEG-4/JPEG compression	
Audio		SNS-400 : 4/1, 1CH Bi-direction SNS-100 : 1/1, 1CH Bi-direction	1/1, 1CH Bi-direction					
Camera / Video		SNS-400 : 4 Input / 1 Output SNS-100 :1 Input / 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, 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)	
Frame Rate	D1 1,280fps (N) / D1 1,152fps (P)	SNS-400 : CIF 120fps (N) / CIF 100fps (P), SNS-100 : VGA 30fps (N) / VGA 25fps (P)	VGA 30fps (N) / VGA 25fps (P)					
Video Features		SNS-400 : 1 or 4CH Sequence, Full screen SNS-100 : 1CH full screen Time / Date / Title display	1CH full screen Time / Date / Title display					
Network Protocol	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	
Network Interface	Ethernet (10/100M)							
Data Interface	RS-232C	RS-232C/422/485	RS-485				N/A	
Alarm In / Out	2 / 2	SNS-400 : 4 / 4 SNS-100 : 2 / 2	1 / 1				4 / 2	2 / 1
Notification	RAID 5 / RAID 1 NAS	Motion detection	Object detection		Object detection Motion detection		Area zoom Motion detection	
Alarm Image Transfer	FTP, E-mail							
Management	Network Manager (SNM-128S/P, SNM-64S/P)							
Event Storage	N/A	USB 2.0	SD memory card				N/A	
Web Server	Built-in							
Web Browser	IE 5.5 or higher							

	CENTRALIZED VIDEO MANAGEMENT SOFTWARE			NETWORK RECODING SOFTWARE
	SVM-S1	SNM-128P	SNM-64P	SNR-32A/16A/9A
Features	• Up to 64/32 channels real-time live monitoring • Support up to 4 VGA output • Register unlimited devices and control up to 128 stream simultaneously • PTZ, Bi-directional audio, Sensor / Relay	• 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	• 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	• 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 PRODUCT

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 performce 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.

MPEG-4 — D1 / CIF / QCIF
JPEG — D1 / CIF / QCIF

Network Camera
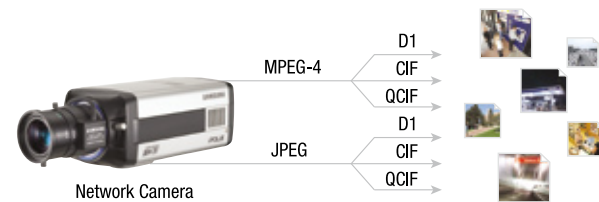
Dual stream

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.

Internet — VGA 30fps

CMS integrated management (Samsung Network Manager)

iPoLis network products support the CMS for integrated network mangement. 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.

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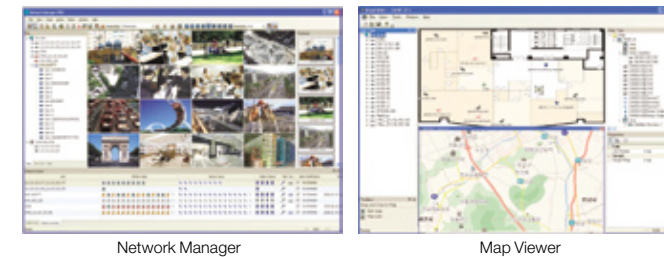
- Convenient Centralized Management for DVR, Network product
- Max. 128 Channel Simultaneous Realtime Monitoring
- Various Event Control using event exclusive panel
- Instant Playback with Thumbnail / Calendar / Timeline / Text search
- Easy Monitoring with Graphic MAP Viewer

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).

LAN — Internet
Power+Data — PoE equipment — User (PC)
SND-560
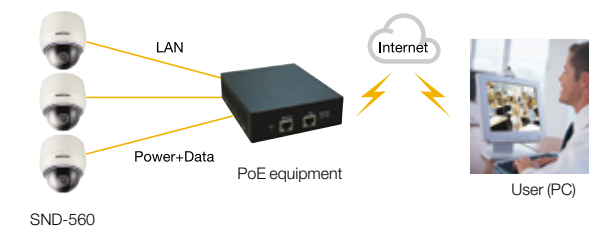
SDK support

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.
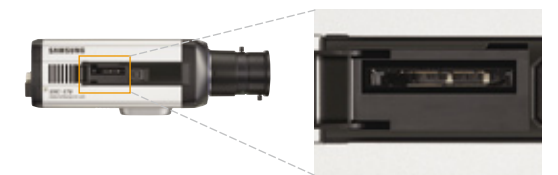
Network protocol

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.

NETWORK PRODUCT

SNR-6400/3200 **NEW**

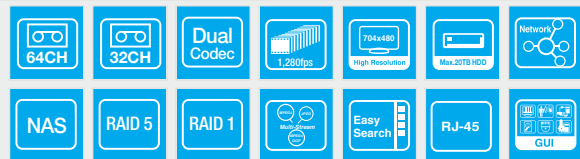## 64/32 Channel High Performance Network Video Recorder

Overview

64/32 Channel Premium High Performance Network Video Recorder The SNR-6400/3200 is our premium network recording solution. Featuring MPEG-4 / JPEG dual codecs, this network recorder records full D1 high resolution images at 1,280fps in real time, and saves high performance images from a maximum of 64 or 32 network channels, also in real time. Embedded with our user-friendly Web Viewer and CMS, this video recorder enables you with easy and advanced monitoring of multiple network channels. Using existing network cabling, the SNR-6400/3200 is cost effective to install.

iPOLiS

64CH	32CH	Dual Codec	1,280fps	704x480 High Resolution	Max.20TB HDD	Network
NAS	RAID 5	RAID 1		Easy Search	RJ-45	GUI

Features

- Real-time MPEG-4/JPEG dual codec
- Full D1 High Resolution Images at 1,280fps(N), 1,152fps(P) in Real-time
- Large-sized default HDD with 1TB data capacity
- 1, 4, 9, 16, 32 & 64 Split screen and multiple video playback options
- Intuitive Thumbnail search / Bookmark search & convenient GUI menu
- Supports multiple video streaming & optimal quality for real-time network monitoring
- Supports both dynamic & fixed IPs & up to 6 monitors
- Supports NAS & RAID 5 (SNR-6400)
- Convenient control with a remote controller and a mouse
- Intuitive system monitoring via front LCD window
- Powerful CMS support as standard (SNM-128S/P)

Outstanding System Reliability

The SNR-6400/3200 supports RAID 5 to keep data safely stored across multiple disks and protect against unexpected disk failures. More than reliable for data protection, it also supports a large data storage capacity.

RAID (Redundant Array of Inexpensive Disks)
RAID 5 supports distributed data storage and data recovery in the event of an HDD disk failure.

RAID

Supports MPEG-4/JPEG Dual Codec

The SNR-6400/3200 supports both MPEG-4 and JPEG compression, recording video feeds from the network cameras without changing file formats.

SNP-3300A
SNP-1000A
SNC-570
SND-460V
SND-560
SNR-6400/3200

Network Camera

PC
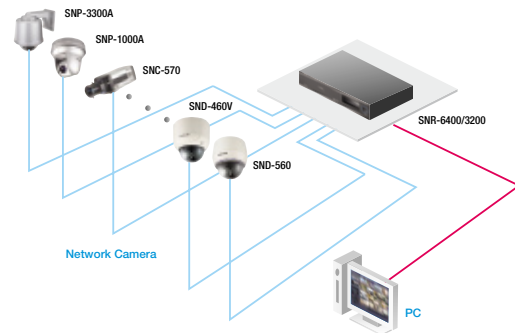
Maximized Capacity

The SNR-6400/3200 provides a maximum of 20TB disk capacity, which is more than enough to save high resolution videos from multiple channels.

- Supports Maximum 4 Internal HDD (1TB Internal Space + 3 Additional HDDs)
- Supports External eSATA 4 Port (16TB External Space)
- Supports NAS (Network Attached Storage)

Convenient Web Viewer UI

The SNR-6400/3200 Web Viewer with its enhanced user interface is accessible to everyone including new users.

Playback
With various search options by the date and time, events, and calendar, this network video recorder enables a quick, convenient video searches.

Monitoring
Various monitoring options are available : live monitoring of a maximum of 64 channels, Pan/Tilt/Zoom control, and managing sensors and alarms.

Easy Setup
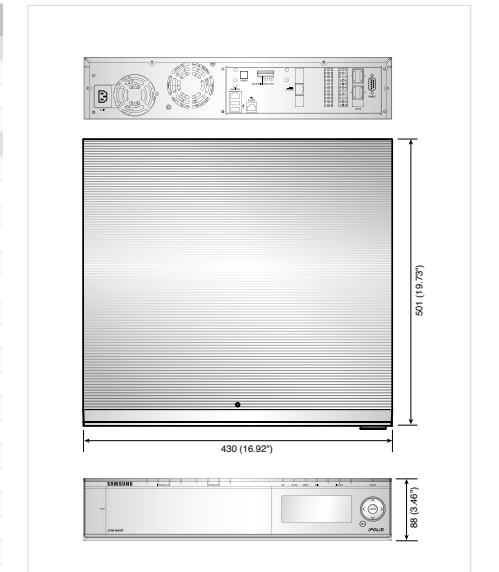All menus are easy to setup, check, and modify. Setting up a network, HDDs, and cameras couldn't be easier.

SNR-6400/3200

64/32 Channel High Performance Network Video Recorder

Technical Specifications

		SNR-6400	SNR-3200
DISPLAY			
Video	IP Camera Inputs	64 Channel	32 Channel
Web Support	Live	1, 4, 9, 16, 36, 64 Channel simultaneously	1, 4, 9, 16, 32 Channel simultaneously
	Search	1 Channel simultaneously	
PERFORMANCE			
Recording	Compression	MPEG-4 / JPEG dual codec	
	Record Rate	Up to 1,280fps@704 x 480(N)	Up to 480fps@704 x 480(N)
		Up to 1,920fps@704 x 240(N)	Up to 960fps@704 x 240(N)
		Up to 1,920fps@352 x 240(N)	Up to 960fps@352 x 240(N)
		Up to 1,152fps@704 x 576(P)	Up to 480fps@704 x 576(P)
		Up to 1,600fps@704 x 288(P)	Up to 800fps@704 x 288(P)
		Up to 1,600fps@352 x 288(P)	Up to 800fps@352 x 288(P)
	Mode	Manual, Schedule (Normal / Event)	
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 5sec	
	Post-alarm	Up to 60sec	
Search & Playback	Search Mode	Time, Event, Calendar	
	Playback Function	REW, FWD (Depend on CMS)	
Network	Bandwidth Control	Automatic (Automatic Transmission Control)	
	Max. Remote Users	10 Simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP,NTP, RTP/RTCP, RTSP	
	Monitoring	CMS Software (SNM-128S/P), Built-in web server	
Storage	Maximum Capacity	Up to 20TB using external storage option	
	RAID	Normal, RAID 1, RAID 5	Normal, RAID 1
	Internal HDD	Up to 4 SATA HDDs	
	External HDD	Up to 4 expansion bay (Up to 4 HDD each)	
	NAS	Up to 4 NAS connection (CIFS/Samba)	
Security	Password Protection	2 User level	
INTERFACE			
Monitors	DOT Matrix LCD	20 x 2 Status display	
Alarm	Inputs	Screw terminal 2 inputs, NO/NC	
	Outputs	Screw terminal 2 relay outputs, NO/NC	
	Remote Notification	Notification via e-mail	
Connections	Ethernet	3 (RJ-45 100/1000 Base-T), 1 (RJ-45 100Base-T)	
	Serial Interface	RS-232C	
	USB	2 USB 2.0 ports (Firmware upgrade)	
	eSATA	4 External SATA ports	
Dome Protocols	Supported PTZ Cameras	Samsung Techwin network products, AXIS network cameras (VAPIX)	
GENERAL			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz, Auto ranging	
	Power Consumption	Max. 110W (With 1X HDD)	
		Max. 130W (With 4X HDD)	
Environmental	Operating Temperature	+5°C ~ +40°C (+41°F ~ +104°F)	
	Operating Humidity	0% ~ 60%RH	
Mechanical	Dimensions (WxHxD)	430 x 88 x 501mm (16.92" x 3.46" x 19.73")	
	Weight (4X Hard Disks)	Approx. 11Kg (24.25 lb)	
	Rack Mount Kit	For mounting one unit in an EIA 19 inch rack	
Language (LCD)		English	
Certifications		FCC (Class A), cUL/UL listed, CE (Class A)	

Dimensions
Unit : mm (inch)

501 (19.73")

430 (16.92")

88 (3.46")

HDD Extension Unit (Option)

SVS-5R

* See page 80 for more details.

System Configuration

SENSOR 1~2
ALARM OUT

Monitoring PC
CAMERA
RAID 5 Unit (SVS-5R)

NETWORK PRODUCT
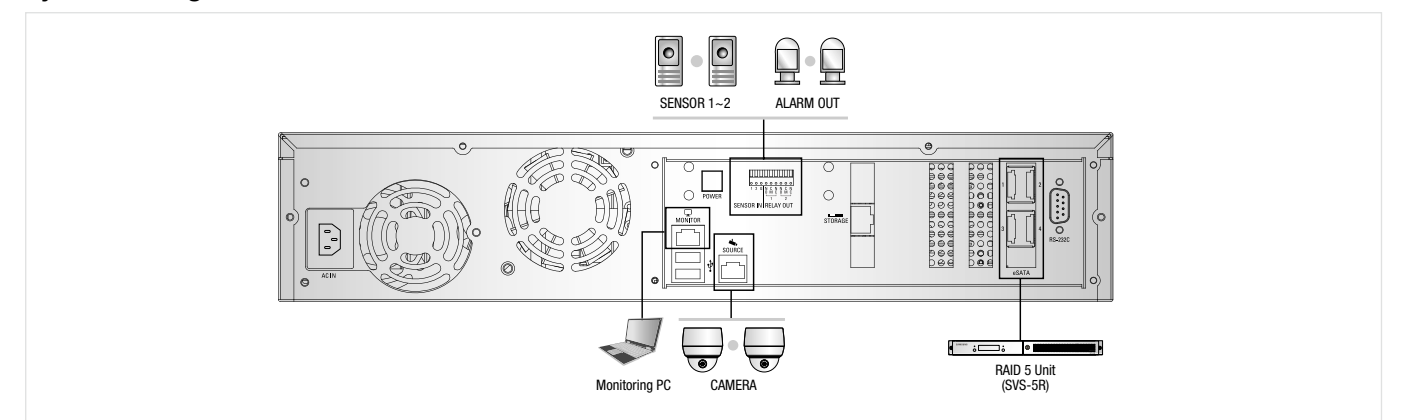
SNS-400/100

4 / 1 Channel Network Video Encoder

FC CE

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
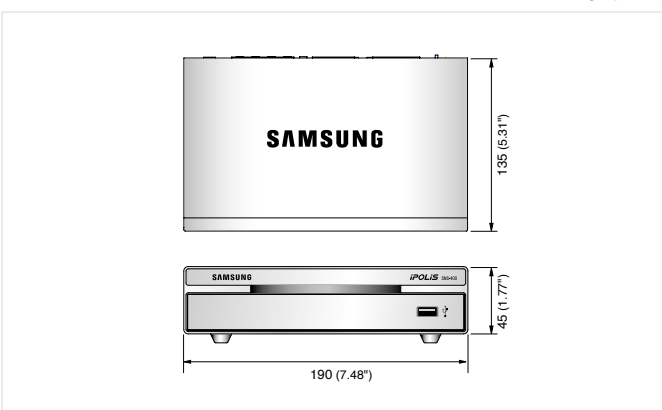
Technical Specifications

		SNS-400	SNS-100
DISPLAY			
Video	Video Signal	NTSC / PAL	
	Resolution	Up to 704 x 480(N) / Up to 704 x 576(P)	
	Inputs	4 BNC	1 BNC
	Outputs	1 BNC	1 BNC
ENCODING			
Encode Rate	Compression	MPEG-4 / JPEG selectable	
	Record Rate	Up to 30fps@704 x 480(N)	Up to 30fps@704 x 480(N)
		Up to 60fps@704 x 240(N)	Up to 30fps@704 x 240(N)
		Up to 120fps@352 x 240(N)	Up to 30fps@352 x 240(N)
		Up to 25fps@704 x 576(P)	Up to 25fps@704 x 576(P)
		Up to 50fps@704 x 240(P)	Up to 25fps@704 x 240(P)
		Up to 100fps@352 x 240(P)	Up to 25fps@352 x 240(P)
Security	Password Protection	5 User level	
	Image Authentication	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	Terminal 2 inputs, NO/NC
	Outputs	Terminal 4 relay outputs, NO/NC	Terminal 2 relay outputs, NO/NC
	Remote Notification	Via e-mail or FTP	
Network	Transmission Speed	Up to 100Mbps	
	Bandwidth Control	Automatic	
	Max. Remote Users	20 Simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP	
Dome Protocols	Supported PTZ Cameras	Samsung Techwin, Pelco D, Pelco P, Panasonic, SEC, SRX	
GENERAL			
Input Voltage	Power Input	12V DC 1.5A power supply	
	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)	

Dimensions

Unit : mm

135 (5.31")
45 (1.77")
190 (7.48")

SNC-1300

NEW

1/3" High Performance Megapixel Network Camera

Overview

The SNC-1300 is our new high performance megapixel network camera equipped with a 1.32 megapixel progressive CCD sensor to deliver a maximum of 1,280 x 950 high resolution images. It also supports MPEG-4 / JPEG duel codes to achieve both a high data compression ratio and clear graphics. Its SD memory card slot enables easy file storage and backups. This high performance network camera is included with a variety of supplementary options such as PoE for an enhanced user experience.

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Features

- 1.32 Megapixel, 1/3" Progressive Scan CCD
- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps 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)
- Min. illumination of 0.3Lux@F1.2 (Color)
  0.002Lux@F1.2 (B/W)
- Dual voltage : 24V AC / 12V DC, PoE
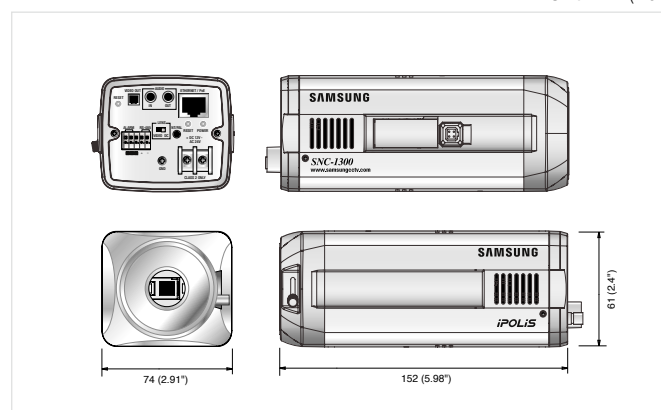
Technical Specifications

		SNC-1300
VIDEO		
Imaging Device		1/3" Progressive Scan CCD
Total Pixels		1,348(H) x 976(V), 1.32M pixels
Effective Pixels		1,296(H) x 966(V), 1.25sM pixels
Scanning System		Progressive
Horizontal Resolution		Color : 800TV lines (Min.), B/W : 800TV Lines (Min.)
Min. Illumination		Color : 0.3Lux (50 IRE@F1.2)
		B/W : 0.002Lux (50 IRE@F1.2)
S / N (Y signal)		50dB
On Screen Display		Built-in (Multi-language support)
Camera Title		On / Off
Day & Night		Auto (ICR) / Color / B/W
Backlight Compensation		On / Off
Motion Detection		On / Off (Output via communication)
Privacy Masking		On / Off (8 Programmable zones)
Sens-up (Frame Integration)		Auto / Off (Selectable limit ~ 32X)
Gain Control		High / Low / Off
White Balance		ATW / AWC / Manual
Lens Control		DC / Video
PERFORMANCE		
Encoding	Resolution	1,280 x 960, 1,280 x 720P, D1, CIF, QCIF
	Compression	MPEG-4 / JPEG dual codec
	Encode Rate	Up to 22.5fps@1,280 x 960, Up to 30fps@1,280 x 720
	Transmission Speed	Up to 100Mbps
Network	Max. Remote Users	20 Simultaneously (Depending on image quality)
	Protocol Support	RTP/UDP, RTP/TCP, RTSP, RTCP, IGMP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP
	Video Analytics	Object detection (Missing object)
Security	Password Protection	5 User level
INTERFACE		
Monitor	Output	1 BNC (Dedicated cable connector for installation)
Audio	Input	1 Line / MIC in, Mono, 1Vpp, 5.6K ohm
	Output	1 Line out, 1Vpp
	Compression	ADPCM
	Sampling Rate	8KHz
Alarm	Inputs	Terminal 1 input, NO/NC
	Outputs	Terminal 1 output, NO/NC
	Remote Notification	Via e-mail or FTP
Connections	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

Dimensions

Unit : mm (inch)

74 (2.91")   152 (5.98")   61 (2.4")

NETWORK PRODUCT

SNC-570

1/3″ High Performance WDR Network Camera

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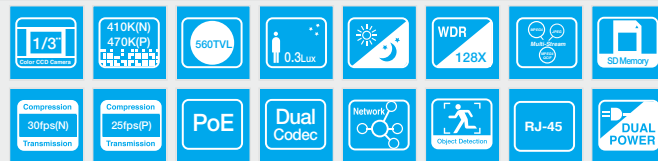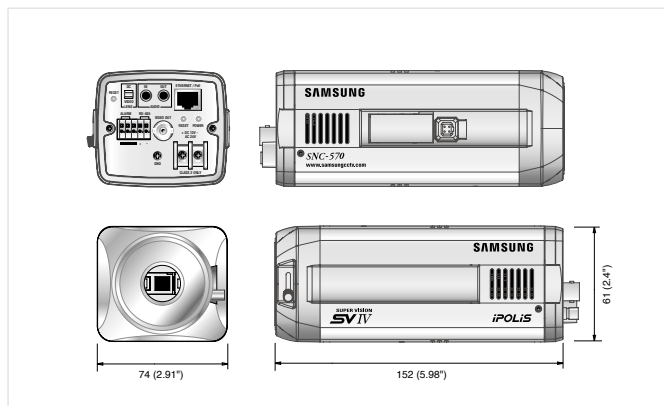
Overview

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

Dimensions

Unit : mm (inch)

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			
	Resolution	Up to 704 x 480	Up to 704 x 576
Encoding	Compression	MPEG-4 / JPEG dual codec	
	Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
	Transmission Speed	Up to 100Mbps	
	Max. Remote Users	20 Simultaneously	
Network	Protocol Support	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP	
	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	
	Sampling Rate	8KHz	
	Inputs	Terminal 1 input, NO/NC	
Alarm	Outputs	Terminal 1 output, NO/NC	
	Remote Notification	Via e-mail or FTP	
Connections	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)	

SND-560

1/3″ High Performance WDR Network Dome Camera

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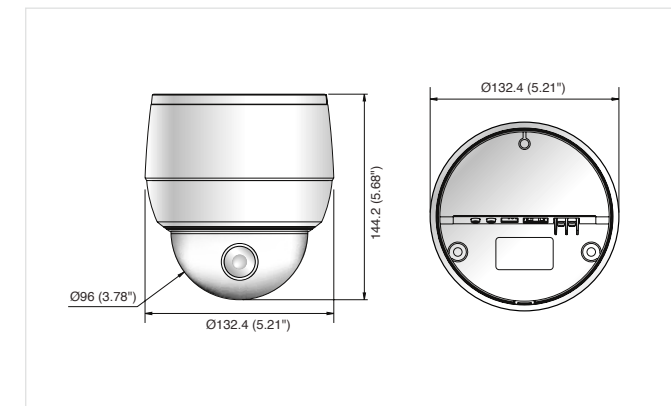
Overview

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.

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

Dimensions

Unit : mm (inch)

Ø132.4 (5.21″)

144.2 (5.68″)

Ø96 (3.78″)

Ø132.4 (5.21″)

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	
Iris Control		Auto	
PAN / TILT / ROTATE			
Pan Range		0° ~ 340°	
Tilt Range		0° ~ 146°	
Rotate Range		0° ~ 340°	
PERFORMANCE			
	Resolution	Up to 704 x 480	Up to 704 x 576
Encoding	Compression	MPEG-4 / JPEG dual codec	
	Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
	Transmission Speed	Up to 100Mbps	
	Max. Remote Users	20 Simultaneously	
Network	Protocol Support	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP	
	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	
	Sampling Rate	8KHz	
	Inputs	Terminal 1 input, NO/NC	
Alarm	Outputs	Terminal 1 output, NO/NC	
	Remote Notification	Via e-mail or FTP	
Connections	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)		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)	

NETWORK PRODUCT

SND-460V **NEW**

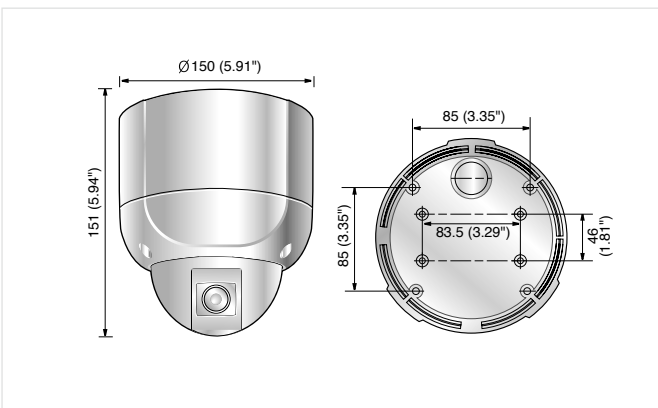## 1/3″ High Performance Vandal-Resistant Network Dome Camera

Overview

The SND-460V high resolution network Vandal resistant dome camera achieves vivid graphics at 580TV lines resolution. This camera delivers noise-free images at ultra low light levels of 0.15Lux. Encased in a sturdy aluminum chassis, its durability is unparalleled. With MPEG-4/JPEG dual codecs, it transfers VGA high resolution videos at 30fps in real time. Its video analysis system is highly intelligent, capturing all objects coming in and out of view. In addition, a multiple language OSD and DIS (Digital Image Stabilization) options are provided for an enhanced user experience.

iPOLiS **WIV** **SSNRII**
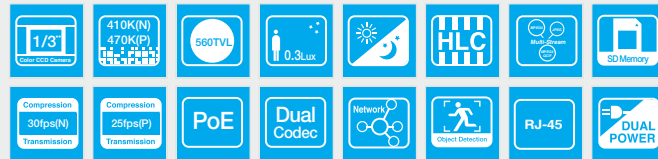
Features

- 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 580TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- HLC (Highlight Compensation) • IP66 Protection against rain & wind
- Rugged, high impact polycarbonate dome cover and aluminum body
- Min. illumination of 0.15Lux@F1.2 (Color)
  0.01Lux@F1.2 (B/W)
  0.0006Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

Dimensions

Unit : mm (inch)

Ø150 (5.91″)
151 (5.94″)
85 (3.35″)
85 (3.35″)
83.5 (3.29″)
46 (1.81″)

Technical Specifications

	SND-460VN	SND-460VP
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 : 580TV lines (Min.), B/W : 700 TV Lines (Min.)	
Min. Illumination	Color : 0.15Lux (50 IRE@F1.2), 0.0006Lux (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	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 : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
Focus	Manual	
Iris Control	Auto	
PAN / TILT / ROTATE		
Pan Range	0° ~ 340°	
Tilt Range	0° ~ 146°	
Rotate Range	0° ~ 340°	
PERFORMANCE		
	Resolution	Up to 704 x 480	Up to 704 x 576
Encoding	Compression	MPEG-4 / JPEG dual codec	
	Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
	Transmission Speed	Up to 100Mbps	
	Max. Remote Users	20 Simultaneously	
Network	Protocol Support	RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP	
	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	
	Sampling Rate	8KHz	
	Inputs	Terminal 1 input, NO/NC	
Alarm	Outputs	Terminal 1 output, NO/NC	
	Remote Notification	Via e-mail or FTP	
Connections	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)	Ø150 x 151mm (Ø5.91″ x 5.94″)	
Weight	1.8Kg (3.97 lb)	
Ingress Protection	IP66	
Certifications	FCC (Class A), UL/cUL listed	CE (Class A)

SNP-3300A

1/4″ 30X Low Light WDR PTZ Network Dome 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**
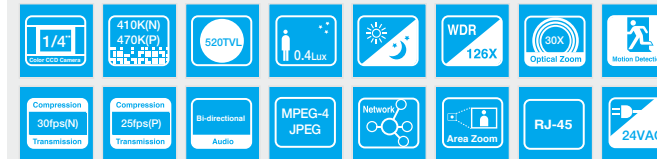
Features

- 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)

Ø155 (6.1″)
243.4 (9.58″)
215.7 (8.49″)
Ø155 (6.1″)
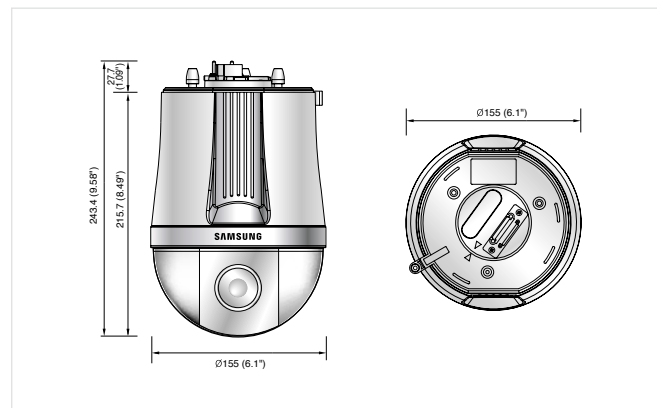
Technical Specifications

|	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
Encoding	Compression	MPEG-4 / JPEG selectable	
	Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576
	Transmission Speed	Up to 100Mbps	
Network	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	
	Inputs	Terminal 4 input, NO/NC	
Alarm	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)

NETWORK PRODUCT

SNP-1000A

1/4″ 10X High Resolution PTZ Network Dome Camera

FC CE

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
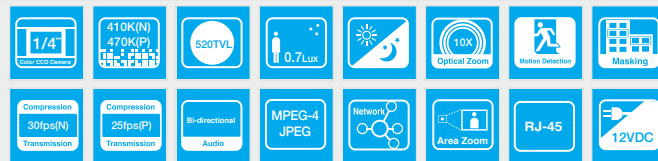
Features

- 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)

Ø140 (5.51″)

134.8 (5.31″)
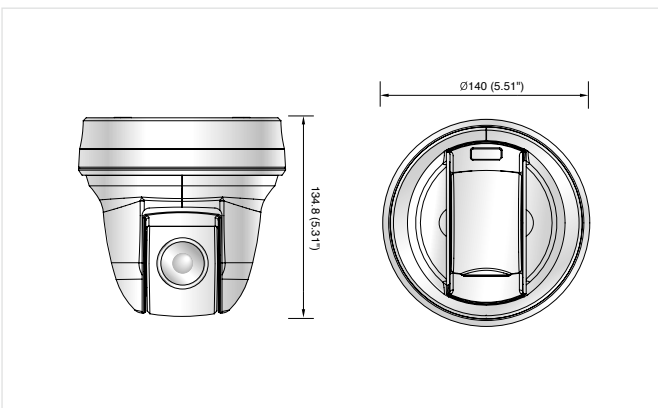
Technical Specifications

	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		
Encoding 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	
Network 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	
Inputs	Terminal 2 input, NO/NC	
Alarm 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)

SVM-S1 NEW

Centralized Video Management Software

Overview

The SVM-S1's CMS software is specifically designed to centrally manage our network products. Capable of monitoring up to 64 channels in real time, this program helps establish an effective network management system with its PTZ control, various events, alarm control options, and two-way audio as well as graphic maps for convenient monitoring.

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Features

- Up to 64 channels real-time live monitoring
- Support up to 4 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 SVM-S1. The SVM-S1 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
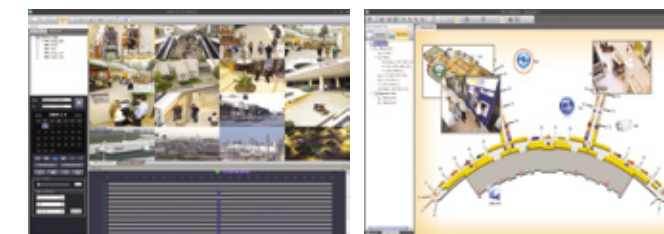
Playback MAP

Technical Specifications

		SVM-S1 (Standard)
Device to Use	Supported Devices	Network Camera : SNC-1300/570, SND-560/460V, SNP-3300A/1000A
		Video Encoder : SNS-400/100
		DVR : SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450
		NVR : SNR-6400/3200, SNR-32A/16A/9A(SW)
	Max. Register Device	Unlimited
	Multi-monitor	4 VGA output (2 Mains / 1 Map / 1 Playback)
	Screen-split Modes	1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen)
Live Monitoring	Launches Instant Player	Supported
	Controls PTZ Function	Pan, Tilt, Zoom, Focus, Preset
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
Playback	Local (Remote) Playback / Back up	Supported
	Converts Video Format	AVI
	Search	Timeline index search, Thumbnail image search, Calendar search
	Zooms in/out on the Image	Supported
	Snapshot / Prints Image	Supported
Event Signal Monitoring	Display	Live image, Current event log on the list
	Filtering	Selected device
User	Group / User	Admin : 1 / User : 5
MAP	Live Monitoring	3 Channel monitors (I-frame) per a MapLayout
	Map division	4 / 9 / 16 / Free
	Alarm out / Sensor in	Supported
	Number of Map	Maps per a MapLayout : 16, MapLayout : 3 (Standard)
	Supports Image	JPEG / BMP / GIF / PNG
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.

NETWORK PRODUCT

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.

iPOLiS

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

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.
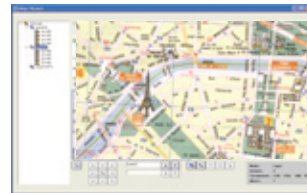
Up to 6 VGA monitor outputs supported

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.

Accessories

USB Dongle Key

Technical Specifications

		SNM-128P (Professional)
Device to Use	Supported Devices	Network Camera : SNC-1300/570, SND-560/460V, SNP-3300A/1000A
		Video Encoder : SNS-400/100
		DVR : SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450
	Max. Register Device	1000
Live Monitoring	Multi-monitor	Max. 6
	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
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Local (Remote) Playback / Back up	Supported
Playback	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
Alarm Signal Monitoring	Displays	Current alarm log on the list, Live/thumbnail image
	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	Group / User	Admin / User : Unlimited
MAP	Number of Map	Map group : Unlimited, Sub-Map, Layout : 64
	Supports Image	JPEG / BMP
System Specifications		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.

SNM-64P

Centralized Video Management Software

Overview

The SNM-64, Samsung Network Video Managment Software fully integrates multiple devices and reqister 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-1300/570, SND-560/460V, SNP-3300A/1000A
		Video Encoder : SNS-400/100
		DVR : SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450
	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
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Local (Remote) Playback / Back up	Supported
Playback	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
Alarm Signal Monitoring	Displays	Current alarm log on the list, Live/thumbnail image
	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	Group / User	Group / User : No limit
MAP	Number of Map	Map group : No limit, Layers : 16, Maps : 64
	Supports Image	JPEG / BMP
System Specifications		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.

NETWORK PRODUCT

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.

MPEG-4   JPEG
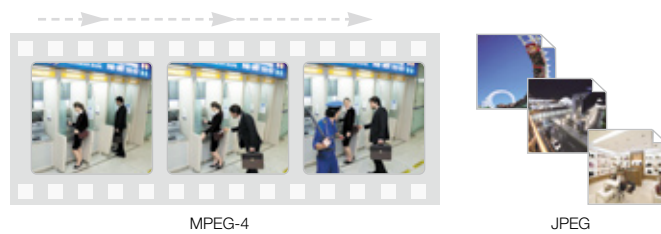
Max. 480fps real-time recording, Various recording modes

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.
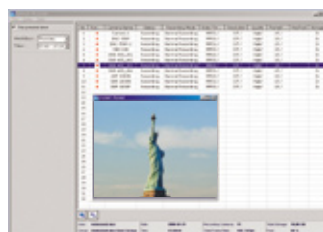
Technical Specifications

		SNR-32A	SNR-16A	SNR-9A
Supported H/W	Supported Devices	Network Camera : SNC-1300/570, SND-560/460V, 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
	Playback	5 Client	5 Client	5 Client
Recording	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		
	Set up	Configurable frame rate for each CH (1~30(N),1~25(P)), Channel independent set up		
Component Search	Camera / Sensor / Relay	32 / 32 / 32	16 / 16 / 16	9 / 9 / 9
	Search Mode	Time/Calendar, Timeline, Thumbnail		
Storage	Space Configuration (Each Drive)	Supported		
	Space Shortage Warning	Supported		
	NAS (Network Attached Storage)	Supported (External)		
User	User Level	2		
	Local (Remote) User	Group : 1, User : No limit		
	IP Filterling (Remote user)	Supported		
S/W Status		Record, Record schedule, Storage, Live/Recording image (Instant viewer)		
Data Security Technology	Login Packet Encryption	Supported		
System		System auto recovery, Auto power-on record		
System Specifications		CPU : Intel Core2Duo E8400, RAM : 2GB above Video memory : 256MB, HDD : 250GB 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

Video Capture (Analog)
Network Camera
Video Encoder
DVR
Network
SNR-32A/16A/9A
Recording Sever
NETWORK RECORDER
NETWORK MANAGER
SNM-64P
Analog Data
Recording Data
Live Data
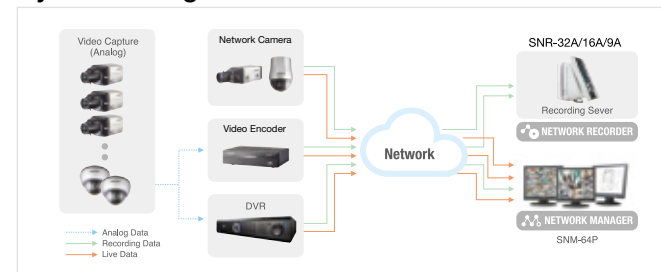
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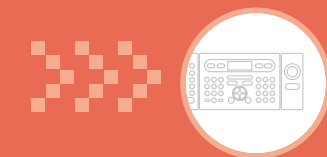
SCC-3100A

System Controller for PTZ Dome Cameras, DVRs and Matrix Switchers

FC | C E

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

Technical Specifications

		SCC-3100A
Included Power Supply	Input	100V AC ~ 240V AC (50/60Hz)
	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-3200/1680C/1660C/1645/960C/945/940/450
	Receiver	SRX-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	Asynchronism 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℃ ~ 40℃
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)

Dimensions

Unit : mm (inch)

400 (15.75")
180 (7.09")
88 (3.46")
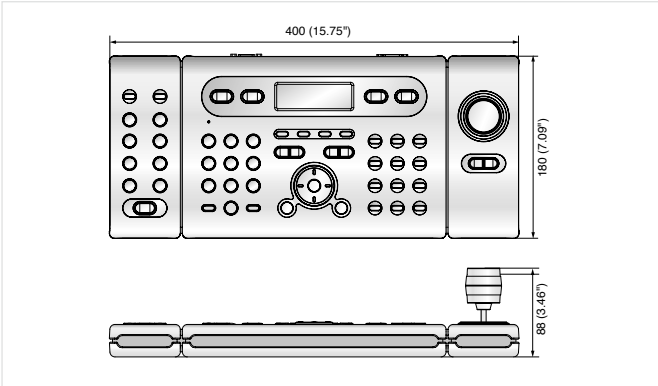
System Configuration

* Junction box is provided with a keyboard.

PTZ Dome Camera + DVR : Max.255
Camera
PTZ Dome Camera : Max.16
DVR : Max.255
SVR-1680C
SVR-1680C
Junction Box
Junction Box
Master Controller
Slave Controller
Slave Controller
Controller : Max.16
Junction Box
Junction Box
Master Controller
Slave Controller
Slave Controller
Controller : Max.16

Link Cable
Control Line : RS-485/422
Video Line
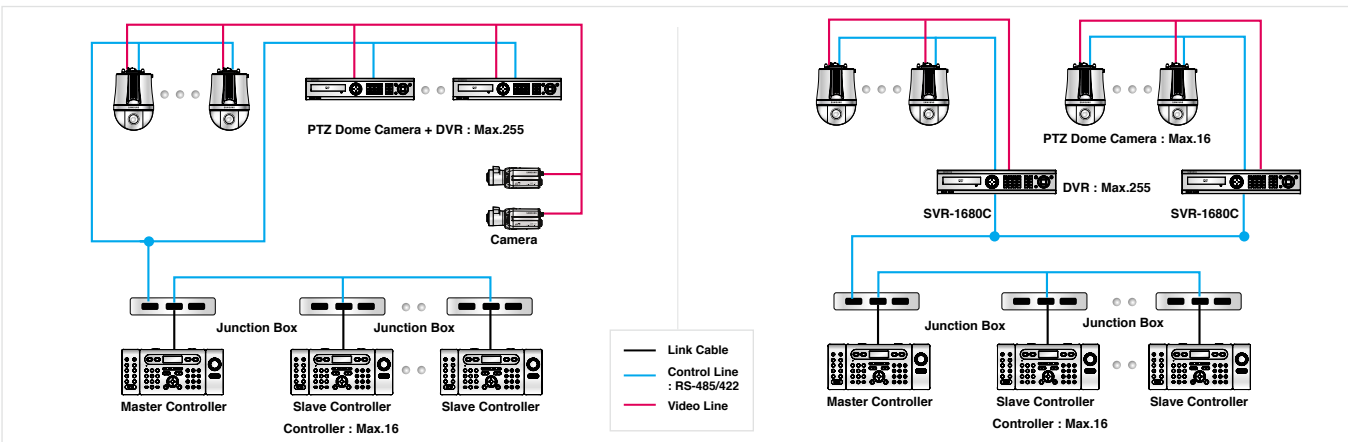
SCC-1000

PTZ Control Keyboard

Overview

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

Features

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

Dimensions

Unit : mm (inch)

280 (10.63")
280 (10.63")
55 (2.17")
100 (3.94")
180 (7.09")

Technical Specifications

		SCC-1000
LCD Display		16 x 2 Character LCD
Speed Control		Joystick (3-axis Twist Zoom)
Compatible Hardware	PTZ Dome	Samsung Techwin PTZ Dome
		PELCO-D/P, Panasonic, Vicon, AD, Honeywell, Samsung Electronics
	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℃ ~ 45℃
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)

System Configuration

1   2   3   255
SPD-3750
MONITOR
SCC-1000

Video Line
Control Line : RS-485/422

CONTROLLER
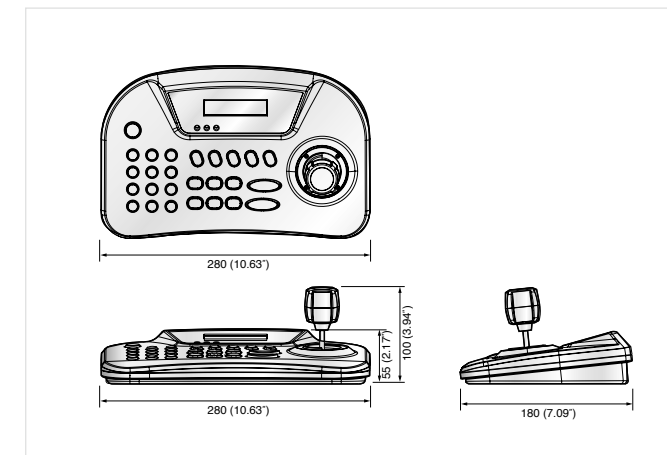
SDQ-420

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

Dimensions

Unit : mm (inch)

System Configuration

Technical Specifications

	SDQ-420
Power Source	12V DC / 4A
Power Consumption	10W (Approximately)
Video Input	8 BNC
Looping Output	BNC / Switchable termination / 75 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, 75
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)
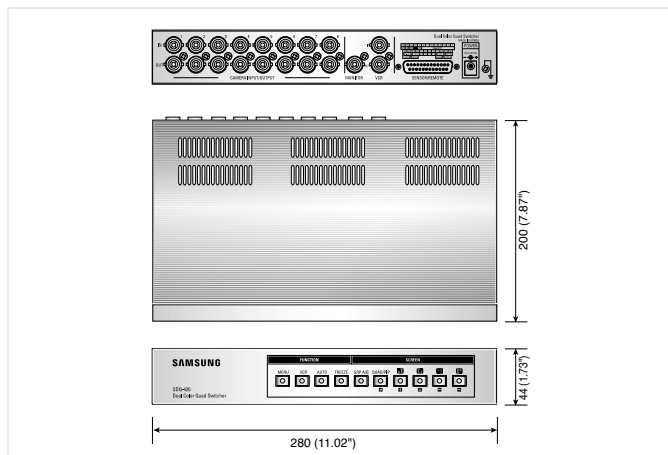
SMX-25632

256 Input / 32 Output Video Matrix Switcher

CE

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

Dimensions

Unit : mm (inch)

SMX-25632

SME-25632

SMV-25632

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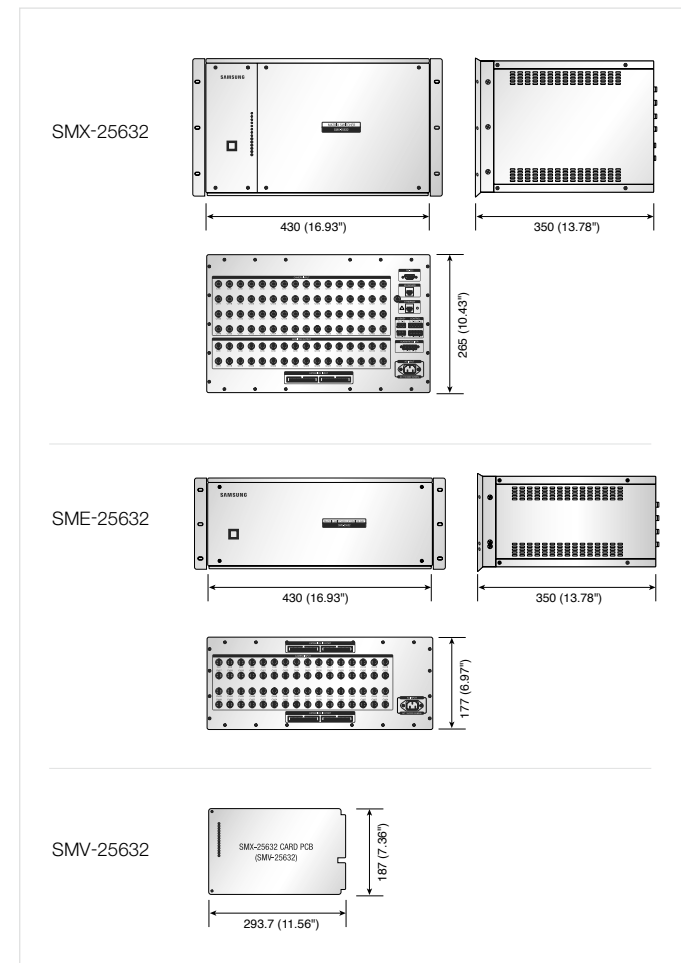
SME-25632 (Matrix Extension Bay)	
Features	64 Camera input control (Connectable up to 3 units)
Power Consumption	Max. 50W
Operating Temperature	0°C ~ +40°C
Operating Humidity	30% ~ 90% RH
Dimensions (WxHxD)	430 x 177 x 350mm (16.93" x 6.97" x 13.78")
Weight	10Kg (22.05 lb)
Certifications	CE (Class A)

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
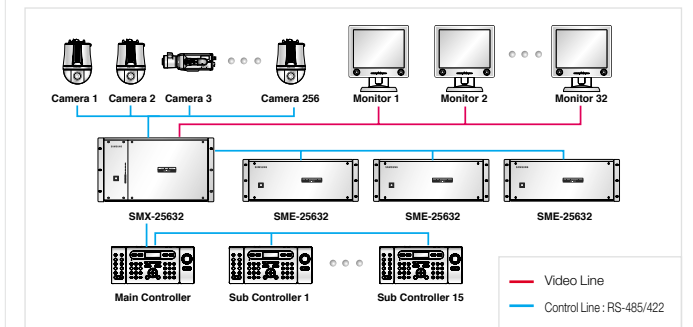
Your source for Professional Video Security Solutions

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 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 : 6.43Kg (14.18 lb) STM-17LM : 5.57Kg (12.28 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
Samsung Digital Security Systems

SAMSUNG TECHWIN · SAMSUNG

MONITOR

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 a 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

FC c UL us LISTED CE

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.
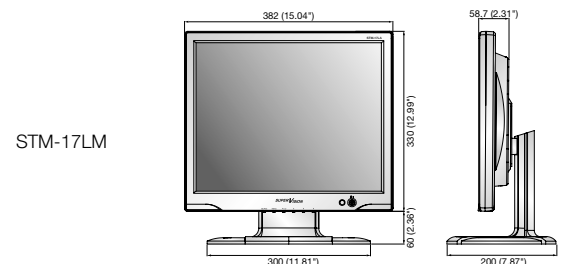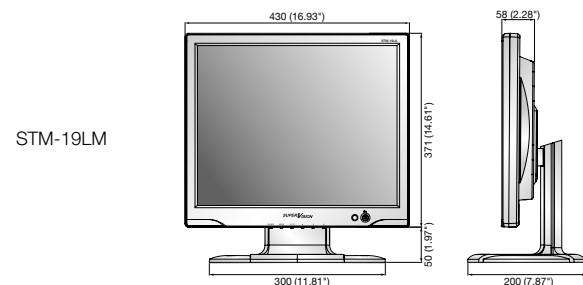

Features

- 1,280 x 1,024@60Hz 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
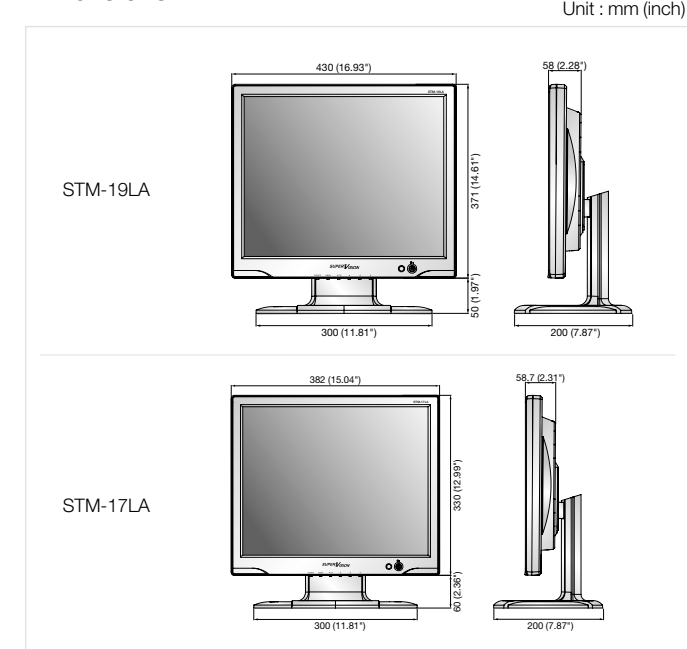
Technical Specifications
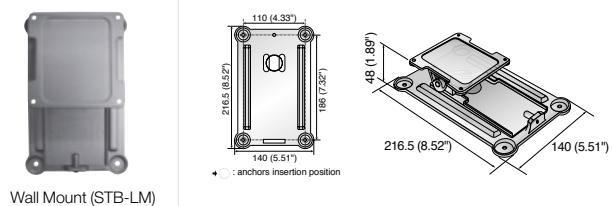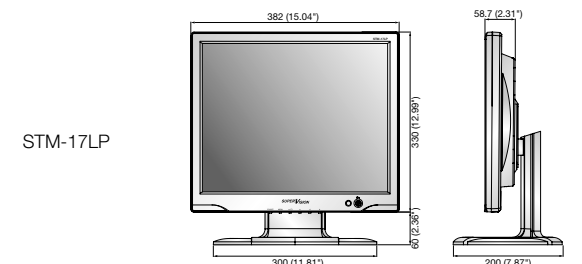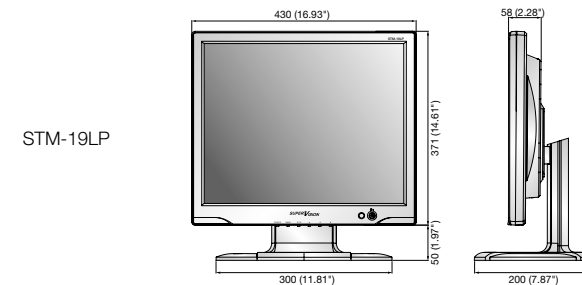
		STM-19LA	STM-17LA
Display	Screen Size	19"	17"
	Pixel Type	Active Matrix TFT	
	Max. Resolution	1,280 x 1,024@60Hz	
	Pixel Pitch	0.294 x 0.294mm (0.012" x 0.012")	0.264 x 0.264mm (0.01" x 0.01")
	Brightness	300cd/m²	
	Contrast Ratio	800 : 1	1,000 : 1
	Aspect Ratio	5 : 4	
	Viewing Angle (H/V)	160° / 160°	
	Display Color	16.7Million	
	Response Time	5ms	
	Video System	NTSC / PAL	
	Frequency (H/V)	31 ~ 64KHz / 50 ~ 75Hz	
Audio	Built in Speakers	2W x 2	
Interface	Video In / Out	2 / 2 (BNC type)	
	RGB In	1 (15Pin D-Sub)	
	Audio In / Out	2 (RCA type)	
	PC Stereo In	1	
Controller	Transmitter Remote Control	Yes	
Features	LCD Protection Glass	Yes	
	Rack Mountable Kit	Optional	
	Multi-lingual Language	English, Spanish, French, German, Italian, Portuguese, Dutch	
	VESA™ DDC Compatible	Yes	
Dimensions	Outline Dimension (With Stand)	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")
	Outline Dimension (Without Stand)	430 x 371 x 58mm (16.93" x 14.61" x 2.28")	382 x 330 x 58.7mm (15.04" x 12.99" x 2.31")
	Packing Dimension	490 x 506 x 225mm (19.29" x 19.92" x 8.86")	436 x 476 x 225mm (17.17" x 18.74" x 8.86")
	Weight	6.61Kg (14.57 lb)	6.2Kg (13.67 lb)
Cabinet	Cabinet Finish / Tilt Stand	Black / Yes	
Mounts	Mounts Size	VESA 100 x 100mm (3.937" x 3.937")	
Electrical	Consumption	Max. 42W	Max. 36W
	Electrical Ratings	12V DC / 4.16A	
	Operating Temperature	0 ~ 40°C	
	Certifications	FCC (Class A), UL/cUL listed, CE (Class A)	

Dimensions

Unit : mm (inch)

STM-19LA

STM-17LA

Optional Accessory

Wall Mount (STB-LM)
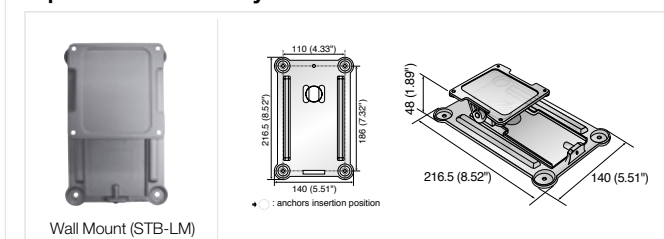
MONITOR

STM-19LM/17LM

19″, 17″ TFT-LCD Color Monitor

FC | c(UL)us LISTED | CE | CCC

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.

19"/17" | BNC VGA | 1000:1 High Contrast Ratio | 1280 X 1024 60Hz Resolution | 300 cd/m² High Brightness | 5ms Response Time | Glass Protecting Glass | Built-in Speakers

Features

- 1,280 x 1,024@60Hz 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)

STM-19LM

430 (16.93")
300 (11.81")
371 (14.61")
50 (1.97")
58 (2.28")
200 (7.87")

STM-17LM

382 (15.04")
300 (11.81")
300 (12.99")
60 (2.36")
58.7 (2.31")
200 (7.87")

Technical Specifications

		STM-19LM	STM-17LM
Display	Screen Size	19"	17"
	Pixel Type	Active Matrix TFT	
	Max. Resolution	1,280 x 1,024@60Hz	
	Pixel Pitch	0.294 x 0.294mm (0.012" x 0.012")	0.264 x 0.264mm (0.01" x 0.01")
	Brightness	300cd/m²	
	Contrast Ratio	800 : 1	1,000 : 1
	Aspect Ratio	5 : 4	
	Viewing Angle (H/V)	160° / 160°	
	Display Color	16.7Million	
	Response Time	5ms	
	Video System	NTSC / PAL	
	Frequency (H/V)	31 ~ 82KHz / 50 ~ 77Hz	
Audio	Built in Speakers	2W x 2	
Interface	Video In / Out	2 / 2 (BNC type)	
	RGB In	1 (15Pin D-Sub)	
	Audio In / Out	2 (RCA type)	
	PC Stereo In	1	
Controller	Transmitter Remote Control	Yes	
Features	LCD Protection Glass	Yes	
	Rack Mountable Kit	Optional	
	Multi-lingual Language	English, Spanish, French, Chinese	
	VESA™ DDC Compatible	Yes	
Dimensions	Outline Dimension (With Stand)	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")
	Outline Dimension (Without Stand)	430 x 371 x 58mm (16.93" x 14.61" x 2.28")	382 x 330 x 58.7mm (15.04" x 12.99" x 2.31")
	Packing Dimension	490 x 506 x 225mm (19.29" x 19.92" x 8.86")	436 x 476 x 225mm (17.17" x 18.74" x 8.86")
	Weight	6.43Kg (14.18 lb)	5.57Kg (12.28 lb)
Cabinet Mounts	Cabinet Finish / Tilt Stand	Black / Yes	
	Mounts Size	VESA 100 x 100mm (3.937" x 3.937")	
Electrical	Consumption	Max. 42W	Max. 36W
	Electrical Ratings	12V DC / 4A	
	Operating Temperature	0 ~ 40°C	
	Certifications	FCC (Class A), UL/cUL listed, CE (Class A), CCC	

Optional Accessory

110 (4.33")
216.5 (8.52")
186 (7.32")
140 (5.51")
48 (1.89")
216.5 (8.52")
140 (5.51")
: anchors insertion position

Wall Mount (STB-LM)

STM-19LP/17LP

19″, 17″ TFT-LCD Monitor for DVRs

FC | c(UL)us LISTED | CE

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.

19"/17" | BNC VGA | 1000:1 High Contrast Ratio | 1280 X 1024 60Hz Resolution | 300 cd/m² High Brightness | 5ms Response Time | Glass Protecting Glass

Features

- 1,280 x 1,024@60Hz 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)

STM-19LP

430 (16.93")
300 (11.81")
371 (14.61")
50 (1.97")
58 (2.28")
200 (7.87")

STM-17LP

382 (15.04")
300 (11.81")
300 (12.99")
60 (2.36")
58.7 (2.31")
200 (7.87")

Technical Specifications

		STM-19LP	STM-17LP
Display	Screen Size	19"	17"
	Pixel Type	Active Matrix TFT	
	Max. Resolution	1,280 x 1,024@60Hz	
	Pixel Pitch	0.294 x 0.294mm (0.012" x 0.012")	0.264 x 0.264mm (0.01" x 0.01")
	Brightness	300cd/m²	
	Contrast Ratio	800 : 1	1,000 : 1
	Aspect Ratio	5 : 4	
	Viewing Angle (H/V)	160° / 160°	
	Display Color	16.7Million	
	Response Time	5ms	
	Video System	NTSC / PAL	
	Frequency (H/V)	31 ~ 82KHz / 50 ~ 77Hz	
Audio	Built in Speakers	2W x 2	
Interface	RGB In	1 (15Pin D-Sub)	
Controller	Transmitter Remote Control	Yes	
Features	LCD Protection Glass	Yes	
	Rack Mountable Kit	Optional	
	Multi-lingual Language	English, Spanish, French, German, Korean	
	VESA™ DDC Compatible	Yes	
Dimensions	Outline Dimension (With Stand)	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")
	Outline Dimension (Without Stand)	430 x 371 x 58mm (16.93" x 14.61" x 2.28")	382 x 330 x 58.7mm (15.04" x 12.99" x 2.31")
	Packing Dimension	490 x 506 x 225mm (19.29" x 19.92" x 8.86")	436 x 476 x 225mm (17.17" x 18.74" x 8.86")
	Weight	6.5Kg (14.33 lb)	5.85Kg (12.9 lb)
Cabinet Mounts	Cabinet Finish / Tilt Stand	Black / Yes	
	Mounts Size	VESA 100 x 100mm (3.937" x 3.937")	
Electrical	Consumption	Max. 42W	Max. 36W
	Electrical Ratings	12V DC / 4A	
	Operating Temperature	0 ~ 40°C	
	Certifications	FCC (Class A), UL/cUL listed, CE (Class A)	

Optional Accessory

110 (4.33")
216.5 (8.52")
186 (7.32")
140 (5.51")
48 (1.89")
216.5 (8.52")
140 (5.51")
: anchors insertion position

Wall Mount (STB-LM)
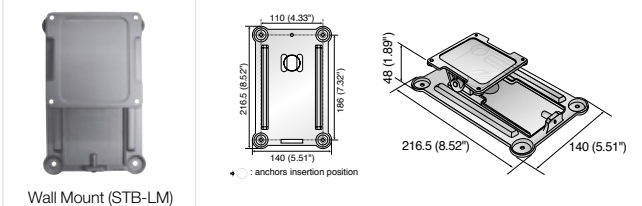
MONITOR

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.

STM-32L

STM-42L

42″ / 32″ | BNC/VGA | 3000:1 High Contrast Ratio | 1,366 x 768 60Hz Resolution | 500 cd/m² High Brightness | 5ms/8ms Response Time | Glass Protecting Glass | Built-in Speakers

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)

1063 (41.85″)   120 (4.72″)

STM-42L

692 (27.24″)

792 (31.18″)   103.5 (4.07″)
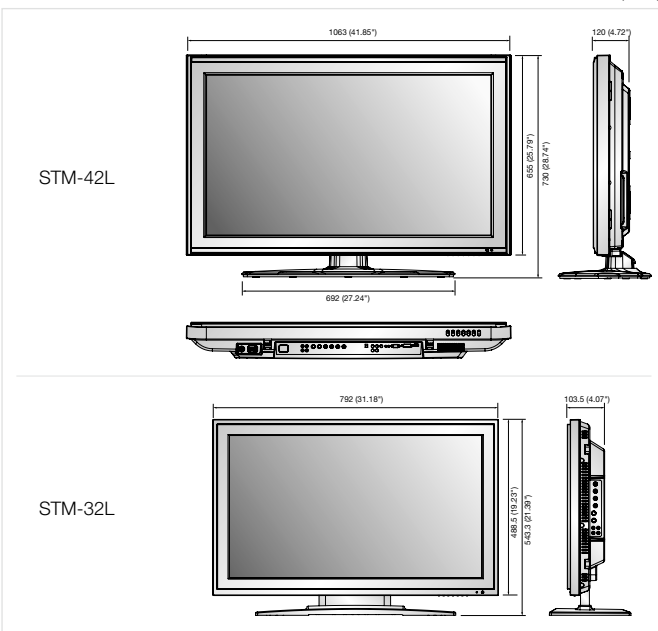
STM-32L

Technical Specifications

		STM-42L	STM-32L
Display	Screen Size	42"	32"
	Pixel Type	Active Matrix TFT	
	Max. Resolution	1,366 x 768@60Hz	
	Pixel Pitch	0.227 x 0.681mm (0.009" x 0.03")	0.17 x 0.51mm (0.0007" x 0.02")
	Brightness	500cd/m²	
	Contrast Ratio	1,100 : 1	3,000 : 1
	Aspect Ratio	16 : 9	
	Viewing Angle (H/V)	178°/178°	
	Display Color	16.7Million	
	Response Time	5ms	8ms
	Video System	NTSC / PAL	
	Frequency (H/V)	45 ~ 50 KHz / 47 ~ 63 KHz	45 ~ 52KHz / 48 ~ 66KHz
Audio	Built in Speakers	2W x 2	
Interface	Video In / Out	2 / 2 (BNC type)	
	S-Video In / Out	(Y/C, Loop-Through Out) 1	
	RGB In	(15Pin D-Sub) 1	
	DVI In	1	
	HDMI	1	
	Trigger	1	
	Audio In / Out	(RCA Type) 2	
	PC Stereo In	1	
Controller	Transmitter Remote Control	Yes	
	PIP (Picture in Picture)	Yes	
	PBP (Picture by Picture)	Yes	
Features	Filter Type	3D Comfilter / DeInterace	
	LCD Protection Glass	Yes	
	Rack Mountable Kit	Optional	
	Multi-lingual Language	English, Spanish, French, German, Italian, Portuguese, Dutch	
	VESA™ DDC Compatible	Yes	
Dimensions	Outline Dimension (With Stand)	1063 x 730 x 304mm (41.85" x 28.74" x 11.99")	792 x 488.5 x 226.6mm (28.82" x 19.23" x 8.92")
	Outline Dimension (Without Stand)	1063 x 655 x 120mm (41.85" x 27.89" x 4.72")	792 x 543.3 x 103.5mm (28.82" x 20.42" x 4.07")
	Net Weight	31Kg (68.3lbs)	22.6Kg (49.8lbs)
	Weight	35Kg (77.2lbs)	24.6Kg (54.2lbs)
Cabinet	Cabinet Finish / Tilt Stand	Black / Yes	
Mounts	Mounts Size	130 x 130 x 634mm (BS M4 x 10mm Screw)	200 x 200mm (BS M6 x 16mm Screw)
	Regulation	TUV NRTL (=UL), CB, FCC (A), CE-Emc (LVD)	
Electrical	Consumption	Max. 42W	Max. 36W
	Electrical Ratings	AC100 ~ 240V (50/60Hz)	
	Operating Temperature	0 ~ 40℃	

Optional Accessory

Wall Mount

STB-42LM

630 (24.8″)   115 (4.53″)

STB-32LM

298.5 (11.7.62″)   49 (1.93″)