



DVR Samsung Digital Security Systems



SAMSUNG TECHWIN





IDVR SELECTION

	SVR-3200	SVR-1680C	SVR-1660C
	- 0	- · · • · · · · · · · · · · · · · · · ·	- 0
OS	Embedded Linux	Embedded Linux	Embedded Linux
Display Rate	960fps(N), 800fps(P)	480fps(N), 400fps(P)	480fps(N), 400fps(P)
	480fps@D1(N), 400fps@D1(P)	480fps@D1(N), 400fps@D1(P)	120fps@D1(N), 100fps@D1(P)
Recording Rate	960fps@half D1(N), 800fps@half D1(P)	480fps@half D1(N), 400fps@half D1(P)	240fps@half D1(N), 200fps@half D1(P)
	960fps@CIF(N), 800fps@CIF(P)	480fps@CIF(N), 400fps@CIF(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

IDVR SELECTION

	SVR-940	SVR-480	SVR-470
	000000		
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
		· N · · · · · · · · · · · · · · · · · ·
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

SAMSUNG DIGITAL CCTV SYSTEMS_64



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)

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.





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.





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.





SVR-940

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

DVR TERMS & FEATURES

Recording Time Table (NTSC)

SVR-440

SVR-32 nstalled Ha		500GB		U	nit : Days	SVR-16 Installed Ha		500GB		U	nit : Days	SVR-16 Installed Ha		500GB		U	nit : Days
704 x 480 FPS	Q5	Q4	Q3	Q2	Q1	704 x 480 FPS	Q5	Q4	Q3	Q2	Q1	352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
480	0.5	0.6	0.8	1.1	1.8	480	0.7	0.8	1.1	1.6	2.7						
240	0.7	0.8	1.1	1.4	2.3	240	0.9	1.2	1.5	2.1	3.5	480	1.4	1.8	2.4	3.6	7.2
120	0.8	1.1	1.4	1.9	2.8	120	1.3	1.6	2.1	2.9	4.6						
						64	1.7	2.1	2.6	3.5	5.4	240	2.1	2.6	3.4	5.2	10.3
64	1.2	1.4	1.8	2.3	3.3	32	2.5	3.1	3.9	5.3	8.3						
32	1.8	2.1	2.6	3.5	5.1	16	3.5	4.2	5.3	7.1	10.8	120	3.1	3.8	5.1	7.7	15.3
704 x 240 FPS	Q5	Q4	Q3	Q2	Q1	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	1.4	2.0	3.4	64	4.1	5.1	6.8	10.2	20.4
480	0.9	1.1	1.3	1.8	2.7	240	1.2	1.5	1.9	2.6	4.3						
240	1.2	1.4	1.8	2.3	3.3	120	1.7	2.1	2.6	3.5	5.4	32	5.8	7.3	9.7	14.5	29.2
120	1.5	1.8	2.1	2.7	3.6	64	2.2	2.6	3.2	4.2	6.2						
64	2.2	2.6	3.2	4.1	5.8	32	3.2	3.9	4.8	6.5	9.7	16	8.3	10.4	13.9	20.8	41.6
32	3.0	3.6	4.3	5.4	7.3	16	4.5	5.3	6.6	8.6	12.5		3.0		. 5.0		

SVR-16 Installed Ha		500GB		U	nit : Days	SVR-96		500GB		U	nit : Days	SVR-94 Installed Ha		500GB		U	nit : Days
352 x 240 FPS	Q5	Q4	Q3	Q2	Q1	352 x 240 FPS	Q5	Q4	Q3	Q2	Q1	352 x 240 FPS	Q5	Q4	Q3	Q2	Q1
480	1.4	1.8	2.4	3.6	7.2	270	2.6	3.2	4.3	6.4	12.9	270	2.6	3.2	4.3	6.4	12.9
240	2.1	2.6	3.4	5.2	10.3	234	2.8	3.5	4.6	6.9	13.8	234	2.8	3.5	4.6	6.9	13.8
120	3.1	3.8	5.1	7.7	15.3	135	3.7	4.6	6.1	9.2	18.4	135	3.7	4.6	6.1	9.2	18.4
						90	4.5	5.7	7.5	11.3	22.7	90	4.5	5.7	7.5	11.3	22.7
64	4.1	5.1	6.8	10.2	20.4	67	5.4	6.8	9.1	13.6	27.2	67	5.4	6.8	9.1	13.6	27.2
32	5.8	7.3	9.7	14.5	29.2	36	7.3	9.1	12.1	18.1	36.2	36	7.3	9.1	12.1	18.1	36.2
16	8.3	10.4	13.9	20.8	41.6	18	10.4	13.0	17.3	25.8	52.0	18	10.4	13.0	17.3	25.8	52.0

Installed Ha	rd Disk : 250GE	В	Unit : Days	Installed Ha	rd Disk : 250Gl	В	Unit : Days	Installed Ha	ard Disk : 160Gl	В	Unit : Days
704 x 480 FPS	SUPER	HIGH	NORMAL	704 x 480 FPS	SUPER	HIGH	NORMAL	704 x 480 FPS	SUPER	HIGH	NORMAL
27	2.8	7.4	17.5	28	6.16	18.49	24.65	28	3.94	11.83	15.78
9	6.1	16.4	24.9	20	6.90	20.69	27.58	20	4.41	13.24	17.65
704 x 240 FPS	SUPER	HIGH	NORMAL	12	7.96	23.88	31.84	12	5.09	15.28	20.37
54	2.8	7.9	11.4	12	7.50	20.00	01.04	12	0.00	10.20	20.01
27	4.1	10.3	16.6	4	9.65	28.94	38.58	4	6.17	18.52	24.69
9	8.4	21.1	32.9	352 x 240 FPS	SUPER	HIGH	NORMAL	352 x 240 FPS	SUPER	HIGH	NORMAL
352 x 240 FPS	SUPER	HIGH	NORMAL	120	5.92	17.76	23.69	120	3.79	11.37	15.16
120	2.8	8.8	12.6	80	7.71	23.13	30.84	80	4.93	14.80	19.74
99	2.9	9.2	14								
45	4.7	14.1	18.4	40	11.04	33.13	44.18	40	7.07	21.20	28.27
9	10	32.9	47.2	4	18.08	54.25	72.34	4	11.57	34.72	46.30

SVR-480/470/450

DVR TERMS & FEATURES

Recording Time Table (PAL)

SVR-32 Installed Ha		500GB		U	nit : Days	SVR-16 Installed Ha		500GB		L	Jnit : Days	SVR-16 Installed Ha		500GB		U	Init : Days
704 x 576 FPS	Q5	Q4	Q3	Q2	Q1	704 x 576 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	0.5	0.6	0.8	1.1	1.8	400	0.7	0.8	1.1	1.6	2.7	100		1.0	0.4	0.0	7.0
200	0.7	0.8	1.1	1.4	2.3	200	0.9	1.2	1.5	2.1	3.5	400	1.4	1.8	2.4	3.6	7.2
100	0.8	1.1	1.4	1.9	2.8	100	1.3	1.6	2.1	2.9	4.6						
						50	1.7	2.1	2.6	3.5	5.4	200	2.1	2.6	3.4	5.2	10.3
50	1.2	1.4	1.8	2.3	3.3	25	2.5	3.1	3.9	5.3	8.3						
25	1.8	2.1	2.6	3.5	5.1	12.5	3.5	4.2	5.3	7.1	10.8	100	3.1	3.8	5.1	7.7	15.3
704 x 288 FPS	Q5	Q4	Q3	Q2	Q1	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	1.4	2.0	3.4	50	4.1	5.1	6.8	10.2	20.4
400	0.9	1.1	1.3	1.8	2.7	200	1.2	1.5	1.9	2.6	4.3						
200	1.2	1.4	1.8	2.3	3.3	100	1.7	2.1	2.6	3.5	5.4	25	5.8	7.3	9.7	14.5	29.2
100	1.5	1.8	2.1	2.7	3.6	50	2.2	2.6	3.2	4.2	6.2						
50	2.2	2.6	3.2	4.1	5.8	25	3.2	3.9	4.8	6.5	9.7	12.5	8.3	10.4	13.9	20.8	41.6
25	3.0	3.6	4.3	5.4	7.3	12.5	4.5	5.3	6.6	8.6	12.5						

SVR-16 Installed Ha		500GB		U	nit : Days	SVR-96 Installed Ha		500GB		Uı	nit : Days	SVR-94 Installed Ha		500GB		U	nit : Days
352 x 288 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1	352 x 288 FPS	Q5	Q4	Q3	Q2	Q1
400	1.4	1.8	2.4	3.6	7.2	225	2.6	3.2	4.3	6.4	12.9	225	2.6	3.2	4.3	6.4	12.9
200	2.1	2.6	3.4	5.2	10.3	198	2.8	3.5	4.6	6.9	13.8	198	2.8	3.5	4.6	6.9	13.8
100	3.1	3.8	5.1	7.7	15.3	112.5	3.7	4.6	6.1	9.2	18.4	112.5	3.7	4.6	6.1	9.2	18.4
						72	4.5	5.7	7.5	11.3	22.7	72	4.5	5.7	7.5	11.3	22.7
50	4.1	5.1	6.8	10.2	20.4	56	5.4	6.8	9.1	13.6	27.2	56	5.4	6.8	9.1	13.6	27.2
25	5.8	7.3	9.7	14.5	29.2	28	7.3	9.1	12.1	18.1	36.2	28	7.3	9.1	12.1	18.1	36.2
12.5	8.3	10.4	13.9	20.8	41.6	14	10.4	13.0	17.3	25.8	52.0	14	10.4	13.0	17.3	25.8	52.0

SVR-94 Installed Hai	rd Disk : 250GE	3	Unit : Days		0/470/450 rd Disk : 250GE		Unit : Days	SVR-44 Installed Ha	rd Disk : 160GB	3	Unit : Days
704 x 576 FPS	SUPER	HIGH	NORMAL	704 x 576 FPS	SUPER	HIGH	NORMAL	704 x 576 FPS	SUPER	HIGH	NORMAL
18	2.8	8.6	12.6	24	6.50	19.49	25.99	24	4.16	12.48	16.64
9	6.1	14.6	22.7	16	7.37	22.12	29.49	16	4.72	14.16	18.87
704 x 288 FPS	SUPER	HIGH	NORMAL	12	7.96	23.88	31.84	12	5.09	15.28	20.37
45	2.5	7.3	10.3	4	9.65	28.94	38.58	4	6.17	18.52	24.69
27	3.9	9.5	14.5								
9	6.4	18.8	26.9	352 x 288 FPS	SUPER	HIGH	NORMAL	352 x 288 FPS	SUPER	HIGH	NORMAL
352 x 288 FPS	SUPER	HIGH	NORMAL	100	6.70	20.09	26.79	100	4.29	12.86	17.15
100	2.6	7.9	12.0	68	8.48	25.43	33.91	68	5.43	16.28	21.70
45	4.4	12.4	16.6	52	9.78	29.33	39.10	52	6.26	18.77	25.03
9	10.4	28.4	45.4	4	18.08	54.25	72.34	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.

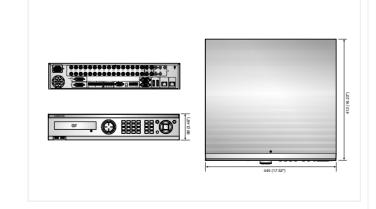


Features

- 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

Video			SVR-	3200
Video Resolution NTSC: 704 x 480 PAL: 704 x 576	DISPLAY			
Resolution			32 Composite video 0.5-2 Vpn	75 ohm automatic termination
Frame Rate NTSC: 960fps PAL: 800fps PAL: 704 x 576 Multi Screen Display PERFORMANCE Compression MPEG-4 NTSC PAL Up to 400fps@704 x 480 Up to 400fps@704 x 576 Up to 960fps@704 x 240 Up to 800fps@704 x 288 Up to 960fps@704 x 240 Up to 800fps@704 x 288 Up to 960fps@704 x 240 Up to 800fps@704 x 288 Up to 960fps@705 x 240 Up to 800fps@704 x 288 Up to 960fps@705 x 240 Up to 800fps@704 x 288 Up to 960fps@705 x 240 Up to 800fps@704 x 288 Up to 960fps@705 x 240 Up to 800fps@704 x 288 Up to 960fps@705 x 240 Up to 800fps@705 x 288 Up to 960fps@705 x 240 Up to 800fps@705 x 288 Up to 60sec Data/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) REW, FWD, Frame advance (Control keys and jog shuttle) Up to 140 fbMbps Authoratic MPEG-4 (Dual Stream) / JPEG Maximum capacity Internal HDD Up to 14 SATA HDDs Up to 14 SATA H	Video			
Pack				
PERFORMANCE Compression MPEG-4 NTSC Record Rate Record Rate Recording Mode Overwrite Modes Pre-alarm Up to 960fps@352 x 240 Up to 800fps@352 x 288 Manual, Schedule, Event, Emergency Continuous Pre-alarm Up to 5sec Up to 6sec Bandwidth Control Rell Stream Max. Remote Users Protocol Support Monitoring Maximum Capacity Internal HDD USB (Back up) File Format (Back up) Us B (Back up) File Format (Back up) Security Password Protection Nonitors Nonitors Nonitors Nonitors Nonitors Nonitors Nonitors Nonitors Sub Composite S	Live	Resolution		
Recording		Multi Screen Display	1/4/9/10/16	
Record Rate Recording Mode Overwrite Modes Pre-alarm Post-alarm Network Network Palyback Plancton Network Post-alarm Network Network Post-alarm Network Network Network Network Post-alarm Network Network Post-alarm Network Network Network Post-alarm Network Post-alarm Network Post-alarm Network Network Post-alarm Network Post-alarm Network Network Post-alarm Network Network Post-alarm Network Network Post-alarm Network Network Network Network Network Network Post-alarm Network Network Network Post-alarm Network Network Network Network Network Post-alarm Network Network Network Network Network Post-alarm Network Netw	PERFOR			
Recording Recording Mode Overwrite Modes Pre-alarm Post-alarm Post-alarm Post-alarm Vibro 600fps@352 x 240 Vibro 900fps@352 x 288 Manual, Schedule, Event, Emergency Continuous Vibro 5sec Post-alarm Vibro 60sec Vibro 60sec Post-alarm Vibro 60sec Vibro 60sec Post-alarm Vibro 60sec Vibr		Compression	MPEG-4	
Recording Mode Overwrite Modes Pre-alarm Post-alarm Pos				
Recording Mode Overwrite Modes Pre-alarm Overwrite Modes Pre-alarm Post-alarm Up to 500fps@352 x 240 Up to 800fps@352 x 288 Manual, Schedule, Event, Emergency Overwrite Modes Pre-alarm Up to 5sec Up to 50sec Up to 50sec Playback Function Transmission Speed Bandwidth Control Network Max. Remote Users Protocol Support Monitoring Maximum Capacity Internal HDD US (Back up) File Format (Back up) DDW Writer (Back up) Password Protection Password Protection Password Protection Data Authentication NTERFACE VGA Main Composite Sub Compo		Record Rate		
Mode Overwrite Modes Pre-alarm Post-alarm Search & Search Mode Playback Playback Function Transmission Speed Bandwidth Control Network		riccord riate		
Overwrite Modes Pre-alarm Pre-alarm Up to 5sec Darbs-talam Up to 60sec Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) Date/Time, Event, Calendar, Thumbnail, Davisteva durantic Date/Time, Event, Calendar, Thumbnail, Davisteva durantic Date/Time, Event, Calendar, Thumbnail, Davisteva durantic Date/Time, Event, Calendar, Thumbnail, Davisteva	Recording			
Pre-alarm Opt to 60sec				gency
Post-alarm Up to 60sec Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer)				
Search & Sarch Mode Playback Flortoin Playback Function Playback F				
Playback Playback Function Transmission Speed Bandwidth Control Multi Stream Max. Remote Users Protocol Support Monitoring Maximum Capacity Internal HDD Up to 16 Multi Stream Max. Remote Users Protocol Support Monitoring Maximum Capacity Internal HDD Up to 4 SATA HDDs Storage Sternat (Back up) File Format (Back up) Sasword Protection Data Authentication INTERFACE Was Main Composite Sub Composite Sub Composite Sub Composite 1 Line; 100K ohm Sampling Rate 1 Inputs 16 Line in, 30K ohm Outputs Indication Ethernet Serial Interface PTZ Centrol Interface PTZ Keyboard USB 2.0 Septian Support PTZ Centrol Interface Power Censumption Operating Humit Power Publish, Norman Samsung Temperature Operating Humit Power Publish, Norman Spanish, Prench, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	0			The state of the s
Transmission Speed Bandwidth Control Multi Stream Max. Remote Users Protocol Support TCP//P, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP Monitoring CMS Software (SNM-1285/P), Built-in web server Up to 16TB using external storage option Up to 4 SATA HDDs External HDD Up to 2 expansion bay DVD Writer (Back up) UP 52 expansion bay DVD-R / CD-R USB (Back up) File Format (Back up) DVD Writer (Back up) DVD-R / CD-R USB (Back up) File Format (Back up) DVD-R / CD-R USB (Back up) Password Protection Data Authentication INTERFACE VGA Main Composite Sub Composite Loop Outputs N/A Inputs 16 Line in, 30K ohm Output 1 Line, 100K ohm Compression ADPCM Sampling Rate 16KHz Inputs Terminal 4 relay outputs, NO/NC Nemote Notification via e-mail Terment RS-232C PTZ Control Interface Power Consumption Operating Humidity Dimensions (WHAD) Web Appiness, Nack Wouth Kit Power Power Servision, Nack Worth Appiness, Nack Wouth Kit Power Power Consumption Operating Humidity Dimensions (WHAD) Web Approxes, 11kg (24.25 lb) Approxes, 11kg (24.25 lb) Approxes, 11kg (24.25 lb) Appaness, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Talwanese Panish, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Talwanese				
Bandwidth Control Automatic Milts Stream MPEG-4 (Dual Stream) / JPEG	Playback			ntroi keys and jog snuttle)
Network Multi Stream MPEG-4 (Dual Stream) / JPEG 10 Simultaneously Top-Piotocol Support Top-Piotocol S				
Max. Remote Users Protocol Support Monitoring Maximum Capacity Internal HDD Up to 4 SATA HDDs External HDD Up to 4 SATA HDDs Storage Storage Notification Security Data Authentication INTERFACE VGA Main Composite Sub Composit				
Protocol Support Monitoring Maximum Capacity Internal HDD Up to 4 SATA HDDs External HDD Up to 4 SATA HDDs Up to 2 expansion bay Up to 2 expansion bay Up to 3 Software (SNM-128S/P), Built-in web server Up to 4 SATA HDDs External HDD Up Writer (Back up) Up to 2 expansion bay Up to 2 expansion to 24 768, 1280 x 109 4 768, 1280 x 109 4 768, 1280 x 109	Network			
Monitoring Maximum Capacity Internal HDD Up to 16TB using external storage option Internal HDD Up to 4 SATA HDDs Storage External HDD Up to 2 expansion bay DVD-R/CD-R USB (Back up) Password Protection Data Authentication Watermark NTERFACE 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, Playback Sub Composite 2 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu N/A Inputs 16 Line in, 30K ohm Output 1 Line, 100K ohm Output 1 Line, 100K ohm Compression ADPCM Sampling Rate Inputs 16 inputs, NO/NC Remote Notification Notification Notification via e-mail Ethernet RJ-45 10/100 Base-T Serial Interface PTZ Control Interface PTS-485, Max. signal voltage ±12V USB 2.0 exarts Application Support Departing Pumerature Operating Pumerature Operating Pumerature Operating Pumerature Operating Temperature Operating Humidity Operating Temperature Operating Humidity Operating Temperature Operating Humidity Operating Temperature Operating Humidity Operating Temperature Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedsh, Rumanian, Danish, Chinese, Talwanese				TP ARP ICMP and NTP
Maximum Capacity				
Internal HDD Up to 4 SATA HDDs External HDD Up to 2 syapansion bay DVD-R/CD-R USB (Back up) File Format (Back up) Security Securi				
Storage External HDD DVD Writer (Back up) DVD-R/ CD-R UVD-R/ CD-R UVD-R UVD-R/ CD-R UVD-R UVD-R/ CD-R UVD-R UND-R UVD-R UVD-R UND-R UND-R UND-R UND-R UND-R UND-R UND-R UND-R UND-R				,
Security Password Protection Data Authentication NTERFACE VGA Monitors Main Composite Loop Outputs Inputs I	04	External HDD		
File Format (Back up) Password Protection Data Authentication NTERFACE VGA Main Composite Sub Composite Loop Outputs Inputs Inputs Inputs Inputs Audio Audio Audio Audio Audio Audio Audio Audio Dutputs Inputs In	Storage	DVD Writer (Back up)		
Password Protection Data Authentication		USB (Back up)	2 External USB ports	
Nate		File Format (Back up)	BMP, AVI, Proprietary format / JI	PEG (Exclusive viewer)
INTERFACE VGA Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution, 2VGA Monitors Main Composite Sub Composite Loop Outputs Inputs Alain Audio	Security			
Monitors Main Composite 2 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback Sub Composite Loop Outputs N/A Inputs 16 Line in, 30K ohm Output 1 Line, 100K ohm Compression ADPCM Sampling Rate Inputs 16KHz Input Outputs, NO/NC Notification via e-mail Input Olasse-T Serial Interface PTZ Control Interface RS-485, Max. signal voltage ±12V USB USB USB 2.0 eSATA Application Support ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL Electrical Input Voltage Power Consumption Operating Temperature Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Meight (KH Ard Disks) Rack Mount Kit For - +40°C (+32°F - +104°F) Operating Temperature Operating Tempe			Watermark	
Monitors Main Composite Sub Composite Sub Composite 2 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback Audio NA Inputs 16 Line in, 30K ohm Audio Output Compression 1 Line, 100K ohm Audio Output Sampling Rate Inputs 16KHz Terminal 16 inputs, NO/NC Alarm Output Outputs Terminal 16 inputs, NO/NC Alarm Outputs Remote Notification Ethernet Terminal 176 inputs, NO/NC Alarm Outputs Plantic Remote Notification Notification via e-mail Ethernet RJ-45 10/100 Base-T Serial Interface PTZ Control Interface PTZ Keyboard RS-485/422 Connections PTZ Keyboard RS-485/422 USB USB 2.0 eSATA 2 External SATA ports Application Support ATM/POS, Mouse, Remote controller DomeProtoxols Supported PTZ Cameras Application Support ATM/POS, Mouse, Remote controller Borriand Temperature Power Consumption Operating Temperature Operating Temperature Operating Humidity Dimensions (WxHxD) 100 ~ 240V AC ± 10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) Mechanical Weight (4X Hard Disks) Rack Mount Kit Approx. 11Kg (24.25 lb) For mounting one unit in an EIA 19 inch rack English, Korean For mounting one unit	INTERFA		A DOD 000 000 1001 TO	
Monitors Sub Composite Loop Outputs Inputs Inputs If a Line in, 30K ohm Output Inputs If a Line in, 30K ohm Output Inputs If a Line in, 30K ohm Output Inputs ADPCM Sampling Rate Inputs If a Line in, 30K ohm Output Inputs If a Line in, 30K ohm ADPCM Sampling Rate Inputs If a Line in, 30K ohm Output Inputs If a Line in, 30K ohm ADPCM Sampling Rate Inputs It a Line in, 30K ohm It a Line in, 30K ohm Inputs It a Line in, 30K ohm				
Loop Outputs	Monitors			
Inputs				reen, Menu
Audio Output Compression Sampling Rate Inputs Inputs ADPCM Sampling Rate Inputs Inputs Inputs Outputs Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Remote Notification No e-mail Ethernet RJ-45 10/100 Base-T Serial Interface PTZ Control Interface PTZ Control Interface PTZ Keyboard USB USB 2.0 eSATA Application Support DomeProtoxis Supported PTZ Cameras GENERAL Input Voltage Power Consumption Operating Temperature Operating Temperature Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Weight (4X Hard Disks) Rack Mount Kit For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Talwanese				
Audio Compression ADPCM Sampling Rate 16KHz Inputs Terminal 16 inputs, NO/NC Outputs Terminal 14 relay outputs, NO/NC Remote Notification Service PTZ Control Interface RS-232C PTZ Control Interface RS-232C PTZ Keyboard USB USB USB 2.0 eSATA Application Support Application Support Application Support Application Support PTZ Cameras GENERAL Input Voltage Power Consumption Operating Temperature Power Consumption Operating Temperature Power Consumption Mechanical Power Model Service Province Individual Power Consumption Operating Temperature For C - +40°C (+32°F - +104°F) Operating Temperature For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese		-'		
Sampling Rate Inputs Terminal 16 inputs, NO/NC Outputs Terminal 4 relay outputs, NO/NC Remote Notification Ethernet RJ-45 10/100 Base-T Serial Interface RS-232C PTZ Control Interface RS-485, Max. signal voltage ±12V USB USB 2.0 eSATA 2 External SATA ports Application Support ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL Electrical Input Voltage Power Consumption Operating Temperature Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Weight (XH Ard Disk) Rack Mount Kit Figlish, Korean Language Spanish, Korean Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) 09crating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Weight (XH Ard Disk) Rack Mount Kit Figlish, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Audio			
Inputs Terminal 16 inputs, NO/NC Outputs Remote Notification Notification via e-mail Ethernet RJ-45 10/100 Base-T Serial Interface PTZ Control Interface PS-485/422 Connections PTZ Keyboard USB USB 2.0 eSATA Application Support Application Support Supported PTZ Cameras Application Support Potods Supported PTZ Cameras ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL Electrical Input Voltage Power Consumption Operating Temperature Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (4X Hard Disks) Rack Mount Kit Finglish, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Talwanese				
Alarm Outputs Remote Notification Remote Notification via e-mail Remote Notification Notification via e-mail Remote Notification via e-mail Research Res-232C Res-232C Res-485, Max. signal voltage ±12V USB USB 2.0 eSATA Application Support Application Support Application Support Application Support Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Res-Application Support Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Support Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Support Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Support Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V AC ±10%, 50/60Hz, Auto ranging Res-Application Via Page 100 - 240V A			Terminal 16 inputs, NO/NC	
Remote Notification Notification via e-mail Rthermet RJ-45 10/100 Base-T Serial Interface RS-232C PTZ Control Interface RS-485/422 RS-485, Max. signal voltage ±12V USB USB 2.0 eSATA 2 External SATA ports Application Support ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL Input Voltage 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Power Consumption Operating Temperature Fo°C - +40°C (+32°F - +104°F) Operating Temperature 445 x 88 x 412mm (17.52" x 3.46" x 16.22") Mechanical Weight (4X Hard Disk) Rack Mount Kit English, Korean Language Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Alarm	Outputs		;
Serial Interface PTZ Control Interface RS-232C Connections PTZ Keyboard USB USB 2.0 eSATA 2 External SATA ports Application Support DomeProtools Supported PTZ Cameras GENERAL Electrical Input Voltage Power Consumption Operating Temperature Power Consumption Operating Humidity Dimensions (WxHxD) Mechanical Mechanical Language RS-232C RS-485/422 External SATA ports External SATA ports ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC Max. 66W (With 1x HDD) / Max. 130W (With 4X HDD) More FO'S HD / HOW (HIT N HDD) / Max. 130W (With 4X HDD) Mechanical Max. 66W (With 1x HDD) / Max. 130W (With 4X HDD) Mechanical Max. 66W (With 1x HDD) / Max. 130W (With 4X HDD) Mechanical Fo'C - +40°C (+32°F - +104°F) Operating Humidity Office Samsund (17.52° x 3.46″ x 16.22″) Mechanical Max. 66W (With 1x HDD) / Max. 130W (With 4X HDD) Mechanical Formation (17.52° x 3.46″ x 16.22″)			Notification via e-mail	
PTZ Control Interface				
Connections PTZ Keyboard USB USB 2.0 eSATA 2 External SATA ports Application Support Supported PTZ Cameras GENERAL Electrical Power Consumption Operating Temperature Environmental Weight (4X Hard Disks) Rack Mount Kit Fingles Page 12 (4.25 lb) For mounting one unit in an EIA 19 inch rack English, Korean Spanish, Tench, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Talwanese				
USB 2.0 eSATA Application Support Application Support ATM/POS, Mouse, Remote controller DomeProtocols Supported PTZ Cameras GENERAL Electrical Input Voltag Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Mechanical Weight (4X Hard Disks) Rack Mount Kit English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	• "			
eSATA Application Support Application Support Dome Putoxols Supported PTZ Cameras GENERAL Electrical Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Hechanical Language e SATA ports ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL 100 ~ 240V AC ± 10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) 6% ~ 60%RH 0% ~ 60%RH 0% ~ 60%RH 0% ~ 84 * 12mm (17.52" x 3.46" x 16.22") Mechanical English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Connections			2V
Application Support DomePotools Supported PTZ Cameras GENERAL Electrical Power Consumption Operating Temperature Dimensions (WxHxD) Mechanical Weight (4X Hard Disks) Rack Mount Kit Language ATM/POS, Mouse, Remote controller Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) 0perating Temperature Operating Humidity Dimensions (WxHxD) Approx. 11Kg (24.25 lb) For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese				
Dome Protocols Supported PTZ Cameras Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC GENERAL Input Voltage Power Consumption Operating Temperature Operating Temperature Dimensions (WxHxD) 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) Mechanical Dimensions (WxHxD) 0% ~ 60%RH Mechanical Weight (4X Hard Disks) Rack Mount Kit For mounting one unit in an ElA 19 inch rack English, Korean Language Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese				
GENERAL Input Voltage 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) 5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 0% ~ 60%RH	Dama Destacala			
Input Voltage			Sarrisung Techwin, Pelco D, Pel	COP, Pariasonic, Bosch, SEC
Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Mechanical Weight (4X Hard Disks) Rack Mount Kit For mounting one unit in an ElA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese			100 ~ 240V AC +10% 50/60Hz	Auto ranging
Environmental Operating Temperature Operating Humidity O% - 60%RH Dimensions (WxHxD) 445 x 8x x 412mm (17.52" x 3.46" x 16.22") Mechanical Weight (4K Hard Disks) Rack Mount Kit For mounting one unit in an EIA 19 inch rack English, Korean Language Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Electrical			
Operating Humidity O% ~ 60%RH O% ~ 60%		Operating Temperature		
Dimensions (WxHxD) Mechanical Weight (4X Hard Disks) Rack Mount Kit For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Environmental			
Mechanical Rack Mount Kit Approx. 11Kg (24.25 lb) For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese				6" x 16.22")
Rack Mount Kit For mounting one unit in an EIA 19 inch rack English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese	Mechanical		Approx. 11Kg (24.25 lb)	
English, Korean Language Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese		Rack Mount Kit	For mounting one unit in an EIA 1	19 inch rack
Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese			English, Korean	
	Language	е		
Certifications FCC (Class A), UL/cUL listed, CE (Class A)	0			
	Certificat	ions	FUU (Class A), UL/CUL listed, CE	(Class A)

SAMSUNG DIGITAL CCTV SYSTEMS_68

ISVR-1680C

16 Channel Premium DVR with 480fps at full D1 resolution



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.



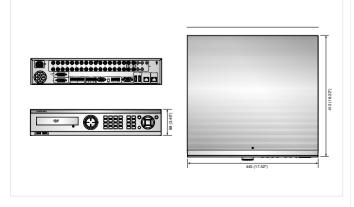


Features

- 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

Dimensions

Unit: mm (inch)



Technical Specifications

DISPLAY

DISPLAY			
Video	Inputs	16 Composite video 0.5-2 Vpp,	
FIGCU	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	
PERFOR			
	Compression	MPEG-4	
	Comprocoion	NTSC	PAI
		Up to 480fps@704 x 480	Up to 400fps@704 x 576
	Record Rate	Up to 480fps@704 x 240	Up to 400fps@704 x 288
D			
Recording	Mada	Up to 480fps@352 x 240	Up to 400fps@352 x 288
	Mode	Manual, Schedule, Event, Emerg	gency
	Overwrite Modes	Continuous	
	Pre-alarm	Up to 5sec	
	Post-alarm	Up to 60sec	
	Search Mode	Date/Time, Event, Calendar, Thumbn	
Playback	Playback Function	REW, FWD, Frame advance (Co	ntrol keys and jog shuttle)
	Transmission Speed	Up to 9Mbps	
	Bandwidth Control	Automatic	
Motor and	Multi Stream	MPEG-4 (Dual Stream) / JPEG	
Network	Max. Remote Users	10 Simultaneously	
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HT	TP. ARP. ICMP and NTP
	Monitoring	CMS Software (SNM-128S/P), E	
	Maximum Capacity	Up to 16TB using external storage	
	Internal HDD	Up to 4 SATA HDDs	,,
_	External HDD	Up to 2 expansion bay	
Storage	DVD Writer (Back up)	DVD-R / CD-R	
	USB (Back up)	2 External USB ports	
	File Format (Back up)	BMP, AVI, Proprietary format / J	DEC (Evolucius visuus)
	Password Protection	10 User level	FEG (Exclusive viewer)
Security	Data Authentication	Watermark	
INITEDEA		vvalermark	
INTERFA		Apples DCD 900 v 600 1004 ···	760 1000 v 1004 recel +:
	VGA Main Composite	Analog RGB 800 x 600, 1024 x 7	
Monitors	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-so	
	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-so	
	Loop Outputs	16 Composite video 1 Vpp, 75 o	nm
	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/NO	;
	Remote Notification	Notification via e-mail	
	Ethernet	RJ-45 10/100 Base-T	
	Ethernet Serial Interface	RJ-45 10/100 Base-T RS-232C	
		RS-232C	
Connections	Serial Interface	RS-232C RS-485/422	2V
Connections	Serial Interface PTZ Control Interface PTZ Keyboard	RS-232C RS-485/422 RS-485, Max. signal voltage ±12	2V
Connections	Serial Interface PTZ Control Interface	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0	2V
Connections	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports	
	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 US External SATA ports ATM/POS, Mouse, Remote con	troller
	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports	troller
Dome Protocols GENERA	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 US External SATA ports ATM/POS, Mouse, Remote con	iroller co P, Panasonic, Bosch, SEC
Dome Protocols	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel	troller co P, Panasonic, Bosch, SEC , Auto ranging
Dome Protocols GENERA Electrical	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operation Temperature	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max.	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F)	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA Electrical	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F, 0% ~ 60%RH	iroller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA Electrical Environmental	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD)	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 445 x 88 x 412mm (17.52″ x 3.4	iroller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA Electrical Environmental	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (4X Hard Disks)	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 445 x 88 x 412mm (17.52″ x 3.4 Approx. 11Kg (24.25 lb)	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA Electrical Environmental	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD)	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F 0% ~ 60%RH 445 x 88 x 412mm (17.52″ x 3.4 Approx. 11Kg (24.251b) For mounting one unit in an EIA	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD)
Dome Protocols GENERA Electrical Environmental Mechanical	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (4X Hard Disks) Rack Mount Kit	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 445 x 88 x 412mm (17.52″ x 3.4 Approx. 11Kg (24.25 lb) For mounting one unit in an EIA English, Korean	troller to P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD) 6" x 16.22") 19 inch rack
Dome Protocols GENERA Electrical Environmental	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (4X Hard Disks) Rack Mount Kit	RS-232C RS-485/422 RS-485/422 RS-485/422 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 445 x 8x 412mm (17.52" x 3.4 Approx. 11Kg (24.25 lb) For mounting one unit in an EIA English, Korean Spanish, French, German, Italian, Po	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD) 6" x 16.22") 19 inch rack ortuguese, Polish, Russian, Turkish,
Dome Protocols GENERA Electrical Environmental Mechanical	Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (4X Hard Disks) Rack Mount Kit	RS-232C RS-485/422 RS-485, Max. signal voltage ±12 USB 2.0 2 External SATA ports ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F) 0% ~ 60%RH 445 x 88 x 412mm (17.52″ x 3.4 Approx. 11Kg (24.25 lb) For mounting one unit in an EIA English, Korean	troller co P, Panasonic, Bosch, SEC , Auto ranging 130W (With 4X HDD) 6" x 16.22") 19 inch rack virtuguese, Polish, Russian, Turkish, umanian, Danish, Chinese, Taiwanes

SVR-1660C

16 Channel DVR with 480fps at CIF resolution



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.

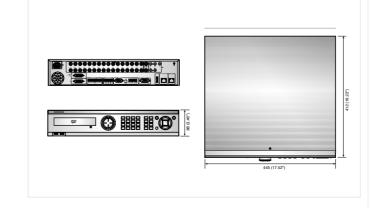


Features

- 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

Dimensions

Unit: mm (inch)



Technical Specifications

		SVR-	1660C				
DISPLAY							
	Inputs	16 Composite video 0.5-2 Vpp,	75 ohm automatic termination				
Video	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	THE THE TABLE				
PERFOR		17 17 07 107 10					
	Compression	MPEG-4					
		NTSC	PAI				
		Up to 120fps@704 x 480	Up to 100fps@704 x 576				
	Record Rate	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				
ŭ	Mode	Manual, Schedule, Event, Emerg	gency				
	Overwrite Modes	Continuous					
	Pre-alarm	Up to 5sec					
	Post-alarm	Up to 60sec					
Search &	Search Mode	Date/Time, Event, Calendar, Thumbna	ail, Bookmark, Text (Exclusive viewer)				
Playback	Playback Function	REW, FWD, Frame advance (Co	ntrol keys and jog shuttle)				
	Transmission Speed	Up to 9Mbps					
	Bandwidth Control	Automatic					
Network	Multi Stream	MPEG-4 (Dual Stream) / JPEG					
INCLINOIN	Max. Remote Users	10 Simultaneously					
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HT					
	Monitoring	CMS Software (SNM-128S/P), Built-in web server					
	Maximum Capacity	Up to 16TB using external storage option					
	Internal HDD	Up to 4 SATA HDDs					
Storage	External HDD	Up to 2 expansion bay					
otorago	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					
INTERFA	Data Authentication	Watermark					
INTERFA		Apples DCD 900 v 600 1004 v 7	769 1000 v 1004 recolution				
	VGA Main Composite	Analog RGB 800 x 600, 1024 x 7					
Monitors	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-so					
	Loop Outputs	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu 16 Composite video 1 Vpp, 75 ohm					
	Inputs	16 Line in, 30K ohm	1111				
	Output	1 Line, 100K ohm					
Audio	Compression	ADPCM					
	Sampling Rate	16KHz					
	Inputs	Terminal 16 inputs, NO/NC					
Alarm	Outputs	Terminal 4 relay outputs, NO/NO	,				
	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 ±12	2V				
	USB	USB 2.0					
	eSATA	2 External SATA ports					
	Application Support	ATM/POS, Mouse, Remote cont					
		Samsung Techwin, Pelco D, Pel	co P, Panasonic, Bosch, SEC				
GENERA		100 0401/40 :100/ 50/0011	A. da manaina				
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz					
	Power Consumption	Max. 66W (With 1X HDD) / Max.					
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)					
	Operating Humidity Dimensions (WxHxD)	0% ~ 60%RH	6" v 16 22"\				
Machanical	Weight (4X Hard Disks)	445 x 88 x 412mm (17.52" x 3.4 Approx. 11Kg (24.25 lb)	U X 10.22)				
wicondillodi	Rack Mount Kit	For mounting one unit in an EIA 1	10 inch rack				
	I IGON WIOUITE NIT	English, Korean	10 IIIOI I ION				
Language	2	Spanish, French, German, Italian, Po	ortuguese Polish Russian Turkish				
Language		Japanese, Czech, Serbian, Swedish, R					
Certificat	ions	FCC (Class A), UL/cUL listed, CE					
Jordinout		. 55 (510007 1), 55 00E 110100, 0E	_ (O.000				

SAMSUNG DIGITAL CCTV SYSTEMS 70 SAMSUNG DIGITAL CCTV SYSTEMS 71

ISVR-1645

16 Channel DVR





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.



SAMSUNG TECHWIN



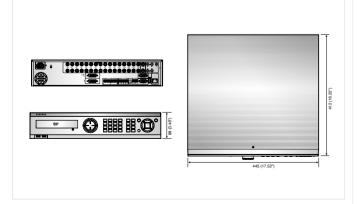


Features

- 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

DISPLAY

Video	Inputs	16 Composite video 0.5-2 Vpp,	75 ohm automatic termination				
viueo	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					
PERFOR		1, 1, 0, 10, 10					
LITTON	Compression	MPEG-4					
	Compression	NTSC	PAI				
	Record Rate	Up to 120fps@704 x 480	Up to 100fps@704 x 576				
	110001011010	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 &	Search Mode	Date/Time, Event, Calendar, Thumbn	ail Bookmark Text (Exclusive viewer)				
	Playback Function	REW, FWD, Frame advance (Co					
1 layback	Transmission Speed	Up to 9Mbps	in or no go ar ia jog or iatable				
	Bandwidth Control	Automatic					
		N/A					
Network	Multi Stream						
	Max. Remote Users	10 Simultaneously	TD 400 1040 14TC				
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HT					
	Monitoring	CMS Software (SNM-128S/P), E					
	Maximum Capacity	Up to 8TB using external storage option					
	Internal HDD	Up to 2 SATA HDDs					
Ctoross	External HDD	Up to 1 expansion bay					
Storage	DVD Writer (Back up)	DVD-R/CD-R					
	USB (Back up)	2 External USB ports					
	File Format (Back up)	BMP, AVI, Proprietary format / J	PEG (Exclusive viewer)				
	Password Protection	10 User level	(Diodoro riottor)				
Security	Data Authentication	Watermark					
INITEDEA		TTALOTTICITY					
INTERFA		Applica PCP 900 v 600 1004 v	769 1000 v 1004 recolution				
INTERFA	VGA	Analog RGB 800 x 600, 1024 x					
	VGA Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-s	creen, Menu, Playback				
	VGA Main Composite Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single-	creen, Menu, Playback screen, Menu				
	VGA Main Composite Sub Composite Loop Outputs	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 o	creen, Menu, Playback screen, Menu				
	VGA Main Composite Sub Composite Loop Outputs Inputs	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm	creen, Menu, Playback screen, Menu				
Monitors	VGA Main Composite Sub Composite Loop Outputs Inputs Output	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm	creen, Menu, Playback screen, Menu				
Monitors	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM	creen, Menu, Playback screen, Menu				
Monitors	VGA Main Composite Sub Composite Loop Outputs Inputs Output	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm	creen, Menu, Playback screen, Menu				
Monitors	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM	creen, Menu, Playback screen, Menu				
Monitors	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 o 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz	creen, Menu, Playback screen, Menu hm				
Monitors Audio	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Outputs	1 BNČ, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC	creen, Menu, Playback screen, Menu hm				
Monitors Audio	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Remote Notification	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail	creen, Menu, Playback screen, Menu hm				
Monitors Audio	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNO, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T	creen, Menu, Playback screen, Menu hm				
Monitors Audio	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Enputs Outputs Semote Notification Ethernet Serial Interface	1 BNČ, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C	creen, Menu, Playback screen, Menu hm				
Monitors Audio Alarm	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNO, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1:	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Keyboard USB eSATA	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm Connections	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB esSATA Application Support	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNO, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm Connections	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port	creen, Menu, Playback screen, Menu hhm				
Monitors Audio Alarm Connections Dome Protocols GENERA	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 14 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC				
Monitors Audio Alarm Connections Dame Protocols	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB esATTA Application Support Supported PTZ Cameras L Input Voltage	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNO, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 – 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max.	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 14 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. 45°C ~ +40°C (+32°F ~ +104°F	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Temperature	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F 0% ~ 60%RH	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD)	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F 0% ~ 60%RH 45 x 88 x 412mm (17.52″ x 3.4°	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (2X Hard Disks)	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 14 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. 45°C ~ +40°C (+32°F ~ +104°F 0% ~ 60%RH 445 x 88 x 412mm (17.52° x 3.4 Approx. 8.6Kg (18.96 lb)	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD) 6" x 16.22")				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD)	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 ~ 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C ~ +40°C (+32°F ~ +104°F 0% ~ 60%RH 445 x88 x 412mm (17.52° x 3.4 4pprox. 8.6Kg (18.96 lb) For mounting one unit in an EIA	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD) 6" x 16.22")				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Outputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (2X Hard Disks)	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 4 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 - 240V AC ±10%, 50/60Hz Max. 66W (With 1X HDD) / Max. +5°C - +40°C (+32°F ~ +104°F 0% ~ 60%RH 45 x 88 x 412mm (17.52° x 3.4 Approx. 8.6Kg (18.96 lb) For mounting one unit in an EIA English, Korean	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)) 6" x 16.22") 19 inch rack				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Coutputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (2X Hard Disks) Rack Mount Kit	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 14 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 - 240V AC ±10%, 50/60Hz Max. 66W With 1X HDD) / Max. Max. 66W With 1X HDD) / Max. 45 × RS × 412mm (17.52" x 3.4 Approx. 8.6Kg (18.96 lb) For mounting one unit in an EIA English, Korean Spanish, French, German, Italian, Pe	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD) 6" x 16.22") 19 inch rack bruguese, Polish, Russian, Turkish,				
Monitors Audio Alarm Connections Dome Protocols GENERA Electrical Environmental Mechanical	VGA Main Composite Sub Composite Loop Outputs Inputs Output Compression Sampling Rate Inputs Outputs Coutputs Compression Sampling Rate Inputs Outputs Remote Notification Ethernet Serial Interface PTZ Control Interface PTZ Keyboard USB eSATA Application Support Supported PTZ Cameras L Input Voltage Power Consumption Operating Temperature Operating Humidity Dimensions (WxHxD) Weight (2X Hard Disks) Rack Mount Kit	1 BNC, 1 Vp-p, 75 ohm, Multi-s 1 BNC, 1 Vp-p, 75 ohm, Single- 16 Composite video 1 Vpp, 75 of 16 Line in, 30K ohm 1 Line, 100K ohm ADPCM 16KHz Terminal 16 inputs, NO/NC Terminal 14 relay outputs, NO/NC Notification via e-mail RJ-45 10/100 Base-T RS-232C RS-485/422 RS-485, Max. signal voltage ±1: USB 2.0 1 External SATA port ATM/POS, Mouse, Remote con Samsung Techwin, Pelco D, Pel 100 - 240V AC ±10%, 50/60Hz Max. 66W With 1X HDD) / Max. Max. 66W With 1X HDD) / Max. 45 × RS × 412mm (17.52" x 3.4 Approx. 8.6Kg (18.96 lb) For mounting one unit in an EIA English, Korean Spanish, French, German, Italian, Pe	creen, Menu, Playback screen, Menu hhm 2V troller co P, Panasonic, Bosch, SEC , Auto ranging 88W (With 2X HDD)) 6" x 16.22") 19 inch rack				

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.

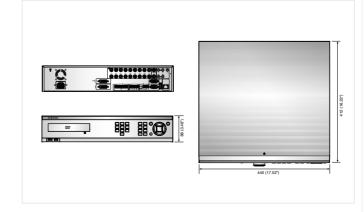


Features

- 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, 7				
VIGCO	Resolution	NTSC: 704 x 480	PAL: 704 x 576			
Line	Frame Rate	NTSC: 270fps	PAL: 225fps			
Live	Resolution	NTSC: 704 x 480	PAL: 704 x 576			
PERFOR		1/4/9/10/16				
I LI II OI II	Compression	MPEG-4				
	Compression	NTSC	PAL			
	Denoval Data	Up to 120fps@704 x 480	Up to 100fps@704 x 576			
	Record Rate	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 Post-alarm	Up to 5sec Up to 60sec				
Sparch &	Search Mode	Date/Time, Event, Calendar, Thumbna	ail Bookmark Toxt (Evolusius violus)			
	Playback Function	REW, FWD, Frame advance (Co				
1 laybaok	Transmission Speed	Up to 9Mbps	na or noyo and jog oriatio,			
	Bandwidth Control	Automatic				
Network	Multi Stream	N/A				
INCLINOIN	Max. Remote Users	10 Simultaneously				
	Protocol Support	FCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP				
	Monitoring	CMS Software (SNM-128S/P), E				
	Maximum Capacity Internal HDD	Up to 16TB using external storage option Up to 2 SATA HDDs				
	External HDD	Up to 1 expansion bay				
Storage	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				
INTERFA	Data Authentication	Watermark				
INTERFA	VGA	Analog RGB 800 x 600, 1024 x 7	768 1280 v 1024 resolution			
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-so				
Monitors	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu				
	Loop Outputs	9 Composite video 1 Vpp, 75 oh	m			
	Inputs	9 Line in, 30K ohm				
Audio	Output	1 Line, 100K ohm				
710010	Compression	ADPCM				
	Sampling Rate	16KHz				
Alarm	Inputs Outputs	Terminal 9 inputs, NO/NC Terminal 4 relay outputs, NO/NC	•			
Λιαιτι	Remote Notification	Notification via e-mail	,			
	Ethernet	RJ-45 10/100 Base-T				
	Serial Interface	RS-232C				
	PTZ Control Interface					
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±12	2V			
	USB	USB 2.0				
	eSATA	1 External SATA ports	rollor			
Domo Protocole	Application Support	ATM/POS, Mouse, Remote cont Samsung Techwin, Pelco D, Pel				
GENERA		Samsung recriwin, reico b, reic	COT, Tariasoriic, Doscri, OLO			
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz	, Auto ranging			
Electrical	Power Consumption	Max. 66W (With 1X HDD) / Max.				
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)				
	Operating Humidity	0% ~ 60%RH	0" 10 00")			
Machanical	Dimensions (WxHxD) Weight (4X Hard Disks)	445 x 88 x 412mm (17.52" x 3.4 Approx. 8.6Kg (18.96 lb)	0 X 10.22)			
Wicuidillodi	Rack Mount Kit	For mounting one unit in an EIA 1	9 inch rack			
	INOURLE THE	English, Korean				
Language	Э	Spanish, French, German, Italian, Po	rtuguese, Polish, Russian, Turkish,			
		Japanese, Czech, Serbian, Swedish, R	lumanian, Danish, Chinese, Taiwanese			
Certificat	ions	FCC (Class A), UL/cUL listed, CE (Class A)				

SAMSUNG DIGITAL CCTV SYSTEMS 72 SAMSUNG DIGITAL CCTV SYSTEMS 73

9 Channel Compact DVR

F© (E

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.

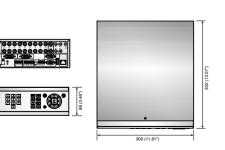




Features

- 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



Technical Specifications

DISPLAY		O Composito vide = 0.5 0.14	75 ahm automatis terreinstic		
Video	Inputs	9 Composite video 0.5-2 Vpp, 7			
	Resolution	NTSC: 704 x 480	PAL: 704 x 576		
Line	Frame Rate	NTSC: 270fps	PAL: 225fps		
Live	Resolution	NTSC: 704 x 480	PAL: 704 x 576		
DEDECD	Multi Screen Display	1/4/9			
PERFOR		MPFG-4			
	Compression		PAI		
		NTSC			
	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, Emer	gency		
	Overwrite Modes	Continuous			
	Pre-alarm	Up to 5sec			
	Post-alarm	Up to 60sec			
	Search Mode		nail, Bookmark, Text (Exclusive viewer)		
Playback	Playback Function	REW, FWD, Frame advance (Co	ontrol keys)		
	Transmission Speed	Up to 9Mbps			
	Bandwidth Control	Automatic			
Network	Multi Stream	N/A			
INGIMOIK	Max. Remote Users	10 Simultaneously			
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, H	TTP, ARP, ICMP and NTP		
	Monitoring	CMS Software (SNM-128S/P),			
	Maximum Capacity	Up to 8TB using external storage			
	Internal HDD	Up to 2 SATA HDDs			
Ctore	External HDD	Up to 1 expansion bay			
Storage	DVD Writer (Back up)	N/A			
	USB (Back up)	2 External USB ports			
	File Format (Back up)		JPEG (Exclusive viewer)		
	Password Protection	10 User level	,		
Security	Data Authentication	Watermark			
INTERFA	CE				
	VGA	Analog RGB 800 x 600, 1024 x	768 1280 x 1024 resolution		
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-s			
Monitors	Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Analog			
	Loop Outputs	9 Composite video 1 Vpp, 75 ol			
	Inputs	9 Line in, 30K ohm			
	Output	1 Line, 100K ohm			
Audio	Compression	ADPCM			
	Sampling Rate	16KHz			
	Inputs	Terminal 9 inputs, NO/NC			
Alarm	Outputs	Terminal 4 relay outputs, NO/No	<u></u>		
rudiiii	Remote Notification	Notification via e-mail	J		
	Ethernet	RJ-45 10/100 Base-T			
	Serial Interface	RS-232C			
	PTZ Control Interface				
Connections		RS-485, Max. signal voltage ±1	2\/		
CONTRECTIONS	PTZ Keyboard		∠ v		
	USB eSATA	USB 2.0			
		1 External SATA port	atrollor		
Dame Darker 1	Application Support	ATM/POS, Mouse, Remote cor			
		Samsung Techwin, Pelco D, Pe	ICO P, Panasonic, Bosch, SEC		
GENERA	_	100 0401/40 .100/ 50/0011	A. 4		
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60H			
	Power Consumption	Max. 66W (With 1X HDD) / Max			
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 3.4	46" x 13.07")		
Mechanical		Approx. 5Kg (11.02 lb)			
	Rack Mount Kit	For mounting one unit in an EIA	19 inch rack		
		English, Korean			
Language	е		ortuguese, Polish, Russian, Turkish,		
			Rumanian, Danish, Chinese, Taiwanese		
Certificat		FCC (Class A), CE (Class A)			

ISVR-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.

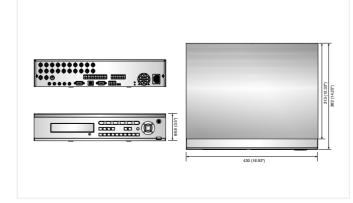


Features

- 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





Technical Specifications

DISPLAY	•						
	Inputs	9 Composite video 0.5-2 Vpp, 75	5 ohm automatic termination				
Video	Resolution	NTSC: 704 x 480	PAL: 704 x 576				
	Frame Rate	NTSC: 270fps	PAL: 225fps				
Live	Resolution	NTSC: 704 x 480	PAL: 704 x 576				
LIVE		1/4/9	FAL. 704 X 370				
PERFOR	Multi Screen Display	1/4/9					
FENFON		MPEG-4					
	Compression	NTSC	PAL				
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576				
D		Up to 60fps@704 x 240	Up to 50fps@704 x 288				
Recording	M. J.	Up to 120fps@352 x 240	Up to 100fps@352 x 288				
	Mode	Manual, Schedule, Event					
	Overwrite Modes	Continuous Up to 3 sec					
	Pre-alarm						
0	Post-alarm	Up to 20sec	TEVE				
	Search Mode	Date/Time, Event (Motion, Senso	or, (EXI)				
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	NO DDD F				
	Protocol Support	TCP/IP, DHCP, SMTP, DNS, DD					
	Monitoring	CMS Software (SNM-64S/P), We	ed viewer				
	Maximum Capacity	2TB					
	Internal HDD	Up to 2 PATA HDDs					
Storage	External HDD	N/A					
	DVD Writer (Back up)	CD-R	1 External USB port				
	USB (Back up)						
	File Format (Back up)	AVI, JPEG					
Security	Password Protection	4 User level					
,	Data Authentication	N/A					
INTERFA		A 1 DOD 000 000 111	104/010				
	VGA	Analog RGB 800 x 600 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					
	Loop Outputs	9 Composite video 1 Vpp, 75 oh	m				
	Inputs	4 Line in, 30K ohm					
Audio	Output	1 Line, 100K ohm					
	Compression	ADPCM					
	Sampling Rate	16KHz					
Alorm	Inputs	Terminal 9 inputs, NO/NC					
Alarm	Outputs Pomoto Notification	Terminal 4 relay outputs					
	Remote Notification	Notification via e-mail					
	Ethernet Serial Interface	RJ-45 10/100 Base-T RS-232C					
	PTZ Control Interface						
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±12	2/				
CONNECTIONS			V				
	USB eSATA	USB 2.0 N/A					
Domo Destace!	Application Support	ATM/POS, Remote controller	Poloo D CDV VICONI OND CONIN				
		Samsung Techwin, SEC, Pelco D, F	PEICUP, SHA, VICUIN, CINB, SOINY				
GENERA		100 040\/ AC , 100/ 50/00\-	Auto ronging				
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz					
	Power Consumption	Max. 60W (With 1X HDD) / Max.					
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)					
	Operating Humidity	0% ~ 60%RH	E" v 14 0E"\				
Machanical	Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93" x 3	.U X 14.20)				
iviecrianical	Weight (4X Hard Disks)	Approx. 8.9Kg (19.62 lb)	10 inch rook				
	Rack Mount Kit	For mounting one unit in an EIA 1					
Language		English, Spanish, French, Germa					
Certificat	iono	Polish, Russian, Turkish, Japane					
Certificat	10113	FCC (Class A), UL/cUL listed, CE	(UIASS M)				



Unit: mm (inch)

F© (E

ISVR-480 NEW

4 Channel Compact DVR

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

Dim	ensions	

Unit: mm



Technical Specifications

DISPLAY

DISPLAY	Inputs	4 Composite video 1 Vpp, 75	ohm automatic termination			
Video	Resolution	NTSC: 704 x 480	PAL: 704 x 576			
	Frame Rate	NTSC: 120fps	PAL: 100fps			
Live	Resolution		PAL: 704 x 576			
Live		NTSC: 704 x 480	PAL: 704 X 370			
PERFOR	Multi Screen Display	1/4				
PERFUR		MDEO 4				
	Compression	MPEG-4	D.U.			
		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 Mode	Date/Time, Event (Motion, Se	nsor, Text)			
Playback	Playback Function	REW, FWD, Frame advance				
	Transmission Speed	Up to 16Mbps				
	Bandwidth Control	On / Off selection				
Mak	Multi Stream	N/A				
Network	Max. Remote Users	4 Simultaneously				
	Protocol Support	TCP/IP, DHCP, SMTP, DNS,	DDNS, PPPoF			
	Monitoring	CMS Software (SNM-64S/P),				
	Maximum Capacity	1TB	1100 1101101			
	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				
	Password Protection	4 User level				
Security						
INITEDEA	Data Authentication	N/A				
INTERFA		AI DOD 000 000I	tion VOA/DNO enlantable			
	VGA	Analog RGB 800 x 600 resolution, VGA/BNC selectable				
Monitors	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback N/A				
	Sub Composite	N/A				
	Loop Outputs	1471				
	Inputs	4 Line in, 30K ohm				
Audio	Output	1 Line, 100K ohm				
	Compression	ADPCM				
	Sampling Rate	16KHz				
	Inputs	Terminal 4 inputs, NO/NC				
Alarm	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					
Connections	PTZ Keyboard	RS-485, Max. signal voltage :	±12V			
	USB	USB 2.0				
	eSATA	N/A				
	Application Support	ATM/POS, Remote controller				
Dome Protocols			D, Pelco P, SRX, VICON, CNB, SON			
GENERA		Carloang rooming ozo, rooc	5,1 0,001 , 0,10, 1,001 , 0,15, 001 1			
	Input Voltage	100 ~ 240V AC ±10%, 50/60	Hz. Auto ranging			
Electrical	Power Consumption	Max. 60W (With 1X HDD) / Max				
	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104				
Environmental	Operating Humidity	0% ~ 60%RH	.,			
	Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93"	v 3 5" v 1/1 25")			
Moohonical			A U.U A 14.2U J			
wechanical	Weight (4X Hard Disks)	Approx. 8.9Kg (19.62 lb)	IA 10 inch rook			
	Rack Mount Kit	For mounting one unit in an E				
Language		English, Spanish, French, Ger				
Certificat		Polish, Russian, Turkish, Japanese, Korean				
	ions	FCC (Class A), CE (Class A)				

ISVR-470 NEW 4 Channel DVR with Built-In LCD

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.

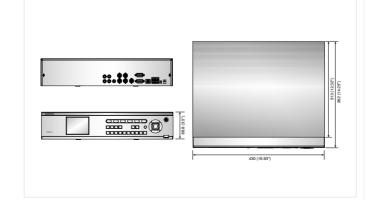


Features

- 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

DISPLAY	,						
	Inputs	4 Composite video 1 Vpp, 75 oh	nm automatic termination				
Video	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				
2	Multi Screen Display	1/4	171211017010				
PERFOR		17.1					
	Compression	H.264					
	Comprossion	NTSC	PAI				
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576				
	1 loool a liuto	Up to 120fps@352 x 240	Up to 100fps@352 x 288				
Recording	Mode	Manual, Schedule, Event	Op to 1001p0@002 x 200				
	Overwrite Modes	Continuous					
	Pre-alarm	Up to 3sec					
	Post-alarm	Up to 20sec					
Search &	Search Mode	Date/Time, Event (Motion, Sens	or TEXT)				
	Playback Function	REW, FWD, Frame advance	or, rext)				
1 layback	Transmission Speed	Up to 16Mbps					
	Bandwidth Control						
	Multi Stream	On / Off selection N/A					
Network	Max. Remote Users	4 Simultaneously					
	Protocol Support		NIS DDDAE				
	Monitoring		TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE CMS Software (SNM-64S/P), Web viewer				
	Maximum Capacity	1TB	CD VICAACI				
	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					
		4 User level					
Security	Password Protection	N/A					
INTERFA	Data Authentication	N/A					
INTERFA		3.5"					
	Display LCD		- \/O \/ (DNO +- - -				
Monitoro	VGA Main Composite	Analog RGB 800 x 600 resolution, VGA/BNC selectable					
IVIOTIILOTS	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback					
	Sub Composite	N/A N/A					
	Loop Outputs	4 Line in, 30K ohm					
	Inputs						
Audio	Output	1 Line, 100K ohm					
	Compression	ADPCM					
	Sampling Rate	16KHz					
A1	Inputs	Terminal 4 inputs, NO/NC					
Alarm	Outputs Demote Natification	Terminal 1 relay outputs					
	Remote Notification	Notification via e-mail					
	Ethernet	RJ-45 10/100 Base-T					
	Serial Interface	RS-232C					
0 "	PTZ Control Interface		0)./				
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±1:	∠V				
	USB	USB 2.0					
	eSATA	N/A					
	Application Support	ATM/POS, Remote controller	D D. ODV. 1/10011 01/5 00:00				
Dome Protocols GENERA		Samsung Techwin, SEC, Pelco D,	Pelco P, SRX, VICON, CNB, SONY				
Electrical	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz	, Auto ranging				
Electrical	Power Consumption	Max. 60W (With 1X HDD) / Max.					
Environmental	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F)				
Environmental	Operating Humidity	0% ~ 60%RH					
	Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93" x 3	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				
		English, Spanish, French, Germ					
		Polish, Russian, Turkish, Japane					
Language		i Ulioi i, i luoolai i, i ul Nol i. Japai i	535, NUIGAN				
Certificat	ions	FCC (Class A), CE (Class A)	536, Nordan				

SAMSUNG DIGITAL CCTV SYSTEMS 76 SAMSUNG DIGITAL CCTV SYSTEMS 77 F© (E

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.



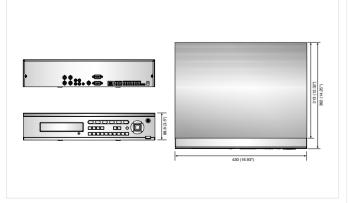


Features

- 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

DISPLAY

DISPLAY						
Video	Inputs	4 Composite video 1 Vpp, 75 of	nm automatic termination			
viueu	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				
PERFOR		.,.				
	Compression	MPEG-4				
	Compression	NTSC	PAI			
	Record Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576			
	necoru nate					
Recording		Up to 120fps@352 x 240	Up to 100fps@352 x 288			
Ŭ	Mode	Manual, Schedule, Event				
	Overwrite Modes	Continuous				
	Pre-alarm	Up to 3sec				
	Post-alarm	Up to 20sec				
	Search Mode	Date/Time, Event (Motion, Sens	or, IEXI)			
Playback	Playback Function	REW, FWD, Frame advance				
	Transmission Speed	Up to 16Mbps				
	Bandwidth Control	On / Off selection				
Network	Multi Stream	N/A				
INCIMOIN	Max. Remote Users	4 Simultaneously				
	Protocol Support	TCP/IP, DHCP, SMTP, DNS, DI	DNS, PPPoE			
	Monitoring	CMS Software (SNM-64S/P), W				
	Maximum Capacity	1TB				
	Internal HDD	Up to 1 PATA HDD				
Storage	External HDD	N/A				
	DVD Writer (Back up)	CD-R				
	USB (Back up)	1 External USB port				
	File Format (Back up)	AVI, JPEG				
	Password Protection	4 User level				
Security	Data Authentication	N/A				
INTERFA		IVA				
IIVILIIIA	VGA	Apolog PCP 900 v 600 recolution	on VCA/PNC coloctable			
		Analog RGB 800 x 600 resolution, VGA/BNC selectable				
Monitors	Main Composite Sub Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback N/A				
		N/A				
	Loop Outputs					
	Inputs	4 Line in, 30K ohm				
Audio	Output	1 Line, 100K ohm				
	Compression	ADPCM				
	Sampling Rate	16KHz				
	Inputs	Terminal 4 inputs, NO/NC				
Alarm	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					
Connections	PTZ Keyboard	RS-485, Max. signal voltage ±1	2V			
	USB	USB 2.0				
	eSATA	N/A				
	Application Support	ATM/POS, Remote controller				
Dome Protocols GENERA		Samsung Techwin, SEC, Pelco D,	Pelco P, SRX, VICON, CNB, SONY			
	Input Voltage	100 ~ 240V AC ±10%, 50/60Hz	Auto ranging			
Electrical	Power Consumption	Max. 60W (With 1X HDD) / Max				
	Operating Temperature	+5°C ~ +40°C (+32°F ~ +104°F				
Environmental	Operating Humidity	0% ~ 60%RH)			
			0.5" v 14.05"\			
Machanina	Dimensions (WxHxD)	430 x 88.8 x 362mm (16.93" x 3	D.U A 14.20 J			
wecnanical	Weight (4X Hard Disks)	Approx. 8.9Kg (19.62 lb)	10 :			
	Rack Mount Kit	For mounting one unit in an EIA				
		English, Spanish, French, Germ				
Language						
Language Certificat		Polish, Russian, Turkish, Japan FCC (Class A), CE (Class A)	ese, Korean			

SVR-440 4 Channel Compact DVR

F© (E

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.

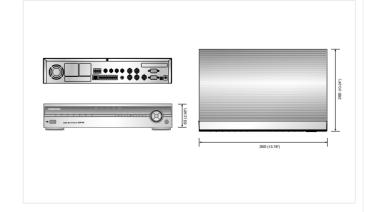


Features

- 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

DISPLAY						
	Inputs	4 Composite video 1 Vpp, 75 o	hm automatic termination			
Video	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			
			PAL: 704 X 376			
DEDEOD	Multi Screen Display	1/4				
PERFORI		MDEO 4				
	Compression	MPEG-4	DAI			
	D I D. I .	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 &	Search Mode	Date/Time, Event (Motion, Sens	sor)			
Playback	Playback Function	REW, FWD, Frame advance				
	Transmission Speed	Up to 16Mbps				
	Bandwidth Control	N/A				
Mar and	Multi Stream	N/A				
Network	Max. Remote Users	4 Simultaneously				
	Protocol Support	TCP/IP, DHCP, PPPoE				
	Monitoring	Network Viewer 440				
	Maximum Capacity	1TB				
	Internal HDD					
	External HDD	Up to 1 PATA 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				
INTERFA	Data Authentication	N/A				
INTERFA	VGA	AI DOD 000 000I-#	\/O \/ /DNIO t- - -			
		Analog RGB 800 x 600 resoluti				
	Main Composite	1 BNC, 1 Vp-p, 75 ohm, Multi-	screen, Ivienu, Playback			
	Sub Composite	N/A				
	Loop Outputs	N/A				
	Inputs	4 Line in, 30K ohm				
Audio	Output	1 Line, 100K ohm				
, 100.0	Compression	ADPCM				
	Sampling Rate	16KHz				
	Inputs	Terminal 4 inputs, NO/NC				
Alarm	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 ±1	12V			
	USB	USB 2.0				
	eSATA	N/A				
	Application Support	Remote controller				
		Samsung Techwin, Pelco D, Pe	elco P, Panasonic, Bosch			
GENERAL	L					
Electrical	Input Voltage	12V DC Adapter				
Electrical	Power Consumption	Max. 25W (With 1X HDD)				
		+5°C ~ +40°C (+32°F ~ +104°	F)			
Environmental	Operating Temperature Operating Humidity	0% ~ 80%RH	,			
	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)				
Mechanical						
		N/A				
	Rack Mount Kit	N/A English, Korean				

SAMSUNG DIGITAL CCTV SYSTEMS 78

SAMSUNG DIGITAL CCTV SYSTEMS 79



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.



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

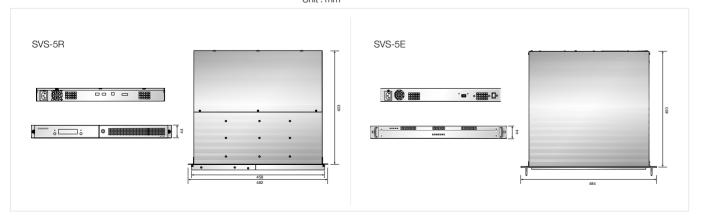
- 1U 19-inch rack case
- Data transfer speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD: Up to 4 (4TB)
- Expandable for more storage

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	Up to 4 SATA HDDs		
Internal Fibb	(Support Hot-Swap function)	Op 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	9-inch rack		
Supported Devices	SVR-3200/1680C/1660C/1645/960C/945			
Certifications	FCC (Class A), UL/cUL listed, CE ((Class A)		

Dimensions

Unit : mm





Your source for Professional Video Security Solutions



NETWORK

Samsung Digital Security Systems



SAMSUNG TECHWIN



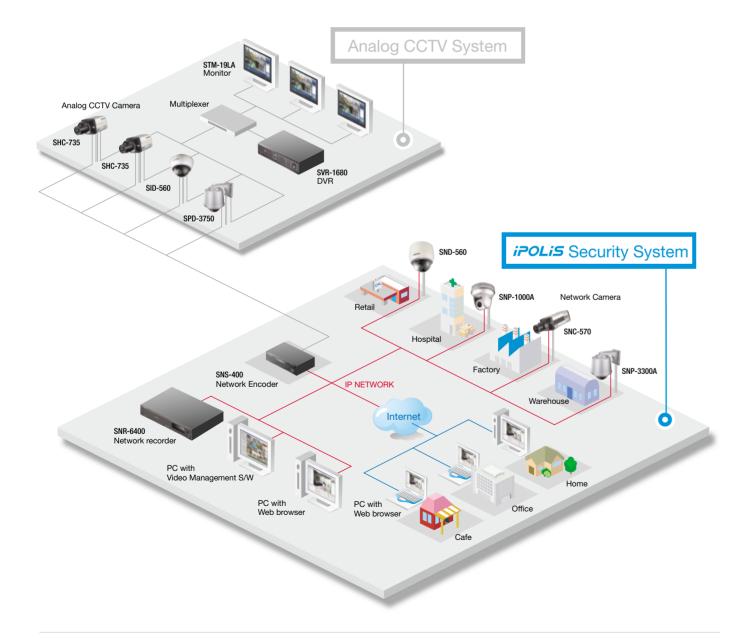
NETWORK SOLUTION

iPOLi5 - 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.



I NETWORK SELECTION



Hardware OS	Embedded Linux							
Codec	MPEG-4/JPEG full dual coded	MPEG-4/JPEG compression		MPEG-4/JPEG	full dual codec		MPEG-4/JP	EG 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 0	utput		
Image Resolution		240, 352 x 240 (N) / 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-100:1 CH 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, I	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				Bui	lt-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
	iPOLIS	iPOLIS	iPOLIS	iPOLIS
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

I 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 performace 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



Multi-stream support for real-time monitoring

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





Dual stream

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

I NETWORK TERMS & FEATURES

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

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





CMS integrated management (Samsung Network Manager)

iPoLis network products support the CMS for integrated network 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.





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

PoE (Power over Ethernet) support

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





SDK support

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



Real-time surveillance with Web viewer

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



Dynamic IP registration and DDNS support

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



SD memory card slot

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





Network protocol

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

SAMSUNG DIGITAL CCTV SYSTEMS 84

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.





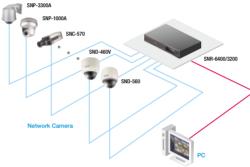


Features

- 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)

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



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)

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)



Convenient Web Viewer UI

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

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

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

Easy Setup

SAMSUNG DIGITAL CCTV SYSTEMS 86

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 DISPLAY IP Camera Inputs 64 Channel 32 Channel Video Web Live 1, 4, 9, 16, 36, 64 Channel simultaneously 1, 4, 9, 16, 32 Channel simultaneously Support Search 1 Channel simultaneously PERFORMANCE Compression MPEG-4 / JPEG dual codec 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) Record Rate Up to 480fps@704 x 576(P) Up to 1.152fps@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 Unito 5sec Pre-alarm Post-alarm Up to 60sec Search Mode Time, Event, Calendar Search & Playback Function RFW, FWD (Depend on CMS) Bandwidth Control Automatic (Automatic Transmission Control) 10 Simultaneously Max Remote Users Network Protocol Support TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP, NTP, RTP/RTCP, RTSP Monitoring CMS Software (SNM-128S/P), Built-in web server Maximum Capacity Up to 20TB using external storage option Normal, RAID 1, RAID 5 Internal HDD Lin to 4 SATA HDDs Up to 4 expansion bay (Up to 4 HDD each) External HDD NAS Up to 4 NAS connection (CIFS/Samba) Security Password Protection 2 User leve INTERFACE DOT Matrix LCD 20 x 2 Status display Monitors Outputs Screw terminal 2 relay outputs, NO/NC Remote Notification Notification via e-mai Ethernet 3 (RJ-45 100/1000 Base-T), 1 (RJ-45 100Base-T) RS-232C Serial Interface Connections 2 USB 2.0 ports (Firmware upgrade) USB eSATA 4 External SATA ports Dome Protocols Supported PTZ Cameras Samsung Techwin network products, AXIS network cameras (VAPIX) GENERAL 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging Input Voltage Max. 110W (With 1X HDD) Electrical Power Consumption Max. 130W (With 4X HDD)

+5°C ~ +40°C (+41°F ~ +104°F)

Approx. 11Kg (24.25 lb)

430 x 88 x 501mm (16.92" x 3.46" x 19.73")

For mounting one unit in an EIA 19 inch rack

FCC (Class A), cUL/UL listed, CE (Class A)

0% ~ 60%RH

Dimensions Unit: mm (inch)

HDD Extension Unit (Option)



See page 80 for more details.

System Configuration

Language (LCD)

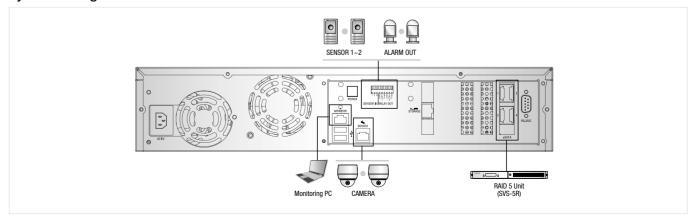
Certifications

Operating Temperature

Operating Humidity

Dimensions (WxHxD) Mechanical Weight (4X Hard Disks)

Rack Mount Kit



4 / 1 Channel Network Video Encoder

F© (E

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.



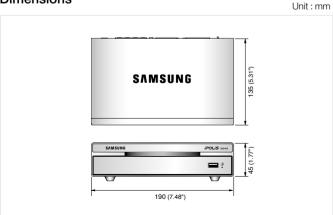
iPOLi5



Features

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

Dimensions



Technical Specifications

		SNS-400	SNS-100	
DISPLAY	•			
	Video Signal	NTSC/PAL		
	Resolution	Up to 704 x 480(N) / Up to 704 x	576(P)	
Video	Inputs	4 BNC	1 BNC	
	Outputs	1 BNC	1 BNC	
ENCODII	NG			
	Compression	MPEG-4 / JPEG selectable		
		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)	
Encode		Up to 120fps@352 x 240(N)	Up to 30fps@352 x 240(N)	
Rate	Record Rate	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)	
	Password Protection	5 User level		
Security	Image Authentication	N/A		
INTERFA				
	Ethernet	RJ-45 10/100 Base-T		
	PTZ control Interface	RS-485/422		
Connections	Serial Interface	RS-232C		
	USB	1 USB 2.0 port for storing events		
	Inputs	1 Line in, 30K ohm		
	Output	1 Line, 100K ohm		
Audio	Compression	ADPCM		
	Sampling Rate	8KHz		
	Inputs	Terminal 4 inputs, NO/NC	Terminal 2 inputs, NO/NC	
Alarm	Outputs	Terminal 4 relay outputs, NO/NC	Terminal 2 relay outputs, NO/NC	
Handling	Remote Notification	Via e-mail or FTP		
	Transmission Speed	Up to 100Mbps		
	Bandwidth Control	Automatic		
Network	Max. Remote Users	20 Simultaneously		
	Protocol Support	TCP/IP, DHCP, DNS, DDNS, HTTP,	SMTP, FTP, PPPoE and NTP	
Dome	Supported	Samsung Techwin, Pelco D, Pelco	00 P,	
Protocols	PTZ Cameras	Panasonic, SEC, SRX		
GENERAL				
Input	Power Input	12V DC 1.5A power supply		
Voltage	Power Consumption	Max. 12W	Max. 8W	
	Operating Temperature	-10°C ~ +50°C (+32°F ~ +104°F)	
Environmental	Operating Humidity	30% ~ 80%RH		
	Dimensions (WxDxH)	190 x 45 x 135mm (7.48" x 1.8"	x 5.3")	
Mechanical	Weight	Approx. 850g (1.87 lb)	Approx. 770g (1.7 lb)	
Certificat	ione	FCC (Class A), CE (Class A)		

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.



iPOLiS

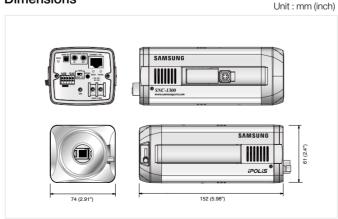


Features

- 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

Dimensions



Technical Specifications

		SNC-1300		
/IDEO				
maging Device		1/3" Progressive Scan CCD		
otal Pixe	els	1,348(H) x 976(V), 1.32M pixels		
ffective	Pixels	1,296(H) x 966(V), 1.25sM pixels		
Scanning	System	Progressive		
lorizonta	al Resolution	Color: 800TV lines (Min.), B/W: 800TV Lines (Min.)		
e		Color: 0.3Lux (50 IRE@F1.2)		
/lin. Illum	iination	B/W: 0.002Lux (50 IRE@F1.2)		
N(Ys	ignal)	50dB		
n Scree	n Display	Built-in (Multi-language support)		
Camera 7	Title	On / Off		
ay & Nig	ght	Auto (ICR) / Color / B/W		
Backlight	Compensation	On / Off		
Notion D	etection	On / Off (Output via communication)		
Privacy N	Masking	On / Off (8 Programmable zones)		
Sens-up	(Frame Integration)	Auto / Off (Selectable limit ~ 32X)		
ain Con	itrol	High / Low / Off		
Vhite Ba	lance	ATW / AWC / Manual		
ens Con	itrol	DC / Video		
ERFOR	MANCE			
	Resolution	1,280 x 960, 1,280 x 720P, D1, CIF, QCIF		
incoding	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		
	Max. Remote Users	20 Simultaneously (Depending on image quality)		
letwork	Durata and Command	RTP/UDP, RTP/TCP, RTSP, RTCP, IGMP, TCP/IP, DHCP,		
	Protocol Support	DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP		
	Video Analytics	Object detection (Missing object)		
Security	Password Protection	5 User level		
NTERFA	CE			
/lonitor	Output	1 BNC (Dedicated cable connector for installation)		
	Input	1 Line / MIC in, Mono, 1Vpp, 5.6K ohm		
udio	Output	1 Line out, 1Vpp		
luulo	Compression	ADPCM		
	Sampling Rate	8KHz		
	Inputs	Terminal 1 input, NO/NC		
larm	Outputs	Terminal 1 output, NO/NC		
	Remote Notification	Via e-mail or FTP		
onnections	Ethernet	RJ-45 10/100 Base-T		
OTTHOUSIONS	OSD Control Interface	RS-485		
Storage	SD(SDHC) Memory	Stored event image, Back up		
BENERA	L			
nput Voltage		Dual (12V DC/ 24V AC), PoE (IEEE 802.3af)		
ower Consumption		Max. 8.5W		
perating Temperature		-10°C ~ +50°C		
	g Humidity	30% ~ 80% RH		
	n (WxHxD)	74 x 61 x 152mm (2.91" x 2.4" x 5.98")		
Veight		580g (1.28 lb)		
ens Mou	unt	C/CS		

SAMSUNG DIGITAL CCTV SYSTEMS 88

1/3" High Performance WDR Network Camera

FC CU CE

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.































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)

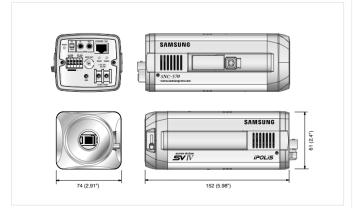
0.01Lux@F1.2 (B/W)

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 I	Device	1/3" Vertical double density inte	erline CCD	
Total Pixe		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		
Frequenc	, ,	H: 15.734 KHz/V: 59.94 Hz	H · 15 625 KHz / V · 50Hz	
	al Resolution	Color: 560TV lines (Min.), B/W:		
		Color: 0.3Lux (50 IRE@F1.2), 0		
Min. Illum		B/W: 0.01Lux (50 IRE@F1.2)		
S/N(Ys		52dB		
	n Display	Built-in (Multi-language support)	
Camera		On / Off		
Day & Nig	,	Auto (ICR) / Color / B/W		
	t Compensation	WDR/BLC/HLC/Off		
Dynamic	•	52dB		
Motion D	etection	On / Off (Output via communica	ition)	
Digital Im	age Stabilization	On / Off		
Privacy N	Masking	On / Off (8 Programmable zone	s)	
3D Noise	Filter (SSNRII)	On / Off (Level adjustable)		
Sens-up	(Frame Integration)	Auto / Off (Selectable limit ~ 256	5X)	
Gain Con	itrol	High / Low / Off		
White Ba	lance	ATW / AWC / Manual / Indoor /	Outdoor	
Electroni	c Shutter Speed	Auto (NTSC: 1/60 ~ 1/120,000sec, P	AL: 1/50 ~ 1/120,000) / Manual / A.F	
PERFOR	MANCE			
	Resolution	Up to 704 x 480	Up to 704 x 576	
Encodina	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		
		HTTP, SMTP, FTP, PPPoE and		
	Video Analytics	Object detection (Missing object	T)	
	Password Protection	5 User level		
INTERFA				
Monitor		1 BNC (560TV lines)		
	Input	1 Line / MIC in, Mono, 1Vpp, 5.0	oK onm	
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			
Connections	Ethernet	RJ-45 10/100 Base-T		
CONTINUOLICITO	OSD Control Interface			
		Stored event image, Back up		
GENERA				
Input Voltage		Dual (12V DC/ 24V AC), PoE (IEEE 802.3af)		
Power Consumption		Max. 8.5W		
Operating	g Temperature	-10°C ~ +50°C		
Operating	g Humidity	30% ~ 80% RH		
Dimensio	on (WxHxD)	74 x 61 x 152mm (2.91" x 2.4" x 5.98")		
Weight		580g (1.28 lb)		
Lens Mou	unt	C/CS		

FCC (Class A), UL/cUL listed CE (Class A)

SND-560

1/3" High Performance WDR Network Dome Camera



Overview

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









Features



• Real-time MPEG-4/JPEG dual codec

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



Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission

High resolution image: 704 x 480, 352 x 240, 176 x 120

• Static / Dynamic IP support / Ethernet 10/100 Base-T capability

• FTP server & E-mail sending, Continuous FTP data transmission

Network management software (SNM-64S/P, SNM-128S/P)

0.01Lux@F1.2 (B/W)

0.001Lux@F1.2 (Sens-up)

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)

Dual voltage: 24V AC / 12V DC, PoE

• Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols





704 x 576, 352 x 288, 176 x 144





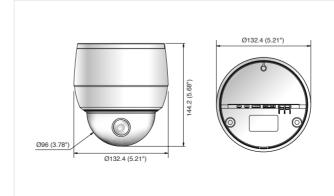




Technical Specifications

	SND-560N	SND-560P
VIDEO		
Imaging Device	1/3" Vertical double density inter	line 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), 0.0	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 communicat	ion)
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 ~ 256)	X)
Gain Control	High / Low / Off	
White Balance	ATW / AWC / Manual / Indoor / C	Outdoor
Electronic Shutter Speed	Auto (NTSC: 1/60 ~ 1/120,000sec, PA	L: 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) / \	/: 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°	
PERFORMĂNCE		
Resolution	Up to 704 x 480	Up to 704 x 576
Encoding Compression	MPEG-4 / IPEG dual codec	

Dimensions



Unit: mm (inch)

Compression Encode Rate Up to 30fps@704 x 480 Up to 25fps@704 x 576 Transmission Speed Up to 100Mbps Max. Remote Users RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, Network Protocol Support HTTP, SMTP, FTP, PPPoE and NTF Video Analytics Object detection (Missing object) Security Password Protection 5 User level INTERFACE Monitor Output Input Output 1 Line / MIC in, Mono, 1Vpp, 5.6K ohm 1 Line out, 1Vpp Audio Compression ADPCM Sampling Rate 8KHz Terminal 1 input, NO/NC Terminal 1 output NO/NC Alarm Outputs Ethernet RJ-45 10/100 Base-1 Connections OSD Control Interface RS-485 Storage SD(SDHC) Memory Stored event image, Back up GENERAL Dual (12V DC/ 24V AC), PoE (IEEE 802.3af) Max. 8.5W -10°C ~ +50°C 30% ~ 80% RH Input Voltage Power Consumption Operating Temperature Operating Humidity Ø132.4 x 144.2mm (Ø5.21" x 5.68") 900g (1.98 lb) Weiaht FCC (Class A), UL/cUL listed CE (Class A)

Certifications

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.









Features





















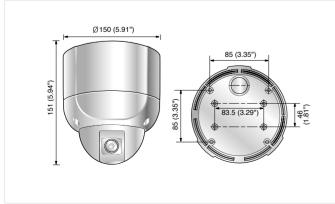
- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution 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)



Technical Specifications

		SND-460VN	SND-460VP	
VIDEO				
Imaging [Device	1/3" Super HAD CCD		
Total Pixe		811(H) x 508(V)	795(H) x 596(V)	
Effective		768(H) x 494(V)	752(H) x 582(V)	
Scanning		2:1 Interlace		
Frequenc			H: 15.625 KHz / V: 50Hz	
	al Resolution	Color: 580TV lines (Min.), B/W:		
		Color: 0.15Lux (50 IRE@F1.2), 0.0006Lux (Sens-up, 256X)		
Min. Illum	ination	B/W: 0.01Lux (50 IRE@F1.2)	(, , , , , , , , , , , , , , , , , , ,	
S/N(Ys	ignal)	52dB		
	n Display	Built-in (Multi-language support)		
Camera 7	Γitle .	On / Off		
Day & Nig	ght	Auto (ICR) / Color / B/W		
	Compensation	BLC/HLC/Off		
Dynamic	Range	52dB		
Motion D		On / Off (Output via communicat	tion)	
	age Stabilization	On / Off		
Privacy N		On / Off (8 Programmable zones	5)	
	Filter (SSNRII)	On / Off (Level adjustable)		
	(Frame Integration)	Auto / Off (Selectable limit ~ 256	X)	
Gain Con		High / Low / Off		
White Ba		ATW / AWC / Manual / Indoor / 0		
	c Shutter Speed	Auto (NISC: 1/60 ~ 1/120,000sec, PA	AL: 1/50 ~ 1/120,000) / Manual / A.FLK	
LENS		0.00/.04		
Zoom Ra		3.6X (Manual)		
Focal Ler		2.8 ~ 10mm (F1.2)		
	erture Ratio	1:1.2(Wide) ~ 2.8(Tele)		
	ect Distance	0.2m (0.66ft)	0.0000000000000000000000000000000000000	
	Field of View	H: 94.4°(Wide) ~ 28°(Tele) / V: 69.2°(Wide) ~ 21°(Tele)		
Focus	-1	Manual		
Iris Contr	T/ROTATE	Auto		
Pan Rang		0° ~ 340°		
Tilt Range		0° ~ 146°		
Rotate Ra		0° ~ 340°		
PERFOR		0 010		
I LI II OI I	Resolution	Up to 704 x 480	Up to 704 x 576	
Encodina	Compression	MPEG-4 / JPEG dual codec	op to 10 1 K of 0	
	Encode Rate	Up to 30fps@704 x 480	Up to 25fps@704 x 576	
	Transmission Speed	Up to 100Mbps	0,000	
	Max. Remote Users	20 Simultaneously		
Network		RTP/UDP, RTP/Multicast, RTSP	P. TCP/IP. DHCP. DNS. DDNS.	
	Protocol Support	HTTP, SMTP, FTP, PPPoE and I		
	Video Analytics	Object detection (Missing object		
Security	Password Protection	5 User level		
INTERFA	CE			
Monitor	Output	1 BNC (560TV lines)		
	Input	1 Line / MIC in, Mono, 1Vpp, 5.6	6K ohm	
Audio	Output	1 Line out, 1Vpp		
Addio	Compression	ADPCM		
	Sampling Rate	8KHz		
	Inputs	Terminal 1 input, NO/NC		
Alarm	Outputs	Terminal 1 output, NO/NC		
		Via e-mail or FTP		
Connections	Ethernet	RJ-45 10/100 Base-T		
Connections OSD Control Interface				
		Stored event image, Back up		
GENERAL		D 1/10/100/15 :: : : : : = = ===		
Input Voltage		Dual (12V DC/ 24V AC), PoE (IEE	=E 802.3af)	
Power Consumption		Max. 8.5W		
Operating Temperature		-10°C ~ +50°C		
	g Humidity	30% ~ 80% RH		
Dimension (WxHxD)		Ø150 x 151mm (Ø5.91" x 5.94")		
Weight		1.8Kg (3.97 lb)		
	rotection	IP66	OF (OL A)	
Certifications		FCC (Class A), UL/cUL listed	CE (Class A)	

SNP-3300A

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





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.









Features

Area zoom support



• Real-time MPEG-4/JPEG compression

• Sensor 4 in / 2 out, bi-directional audio support

• FTP server & E-mail sending, analog output support

High resolution of 520TV lines of a composite output

Day & Night with ICR (Infrared Cut filter Removal)

• TCP/IP, DHCP, HTTP, DDNS etc protocol

Powerful 126X WDR function: Max. 52dB

Min. illumination of 0.4Lux@F1.6 (Color)

Programmable 128 presets

Voltage: 24V AC



Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission

High resolution image: 704 x 480, 704 x 240, 352 x 240(N)

Static / Dvnamic IP support / Ethernet 10/100 Base-T capability

Network management software (SNM-64S/P, SNM-128S/P)

Powerful 30X optical zoom (3.3 ~ 99mm) and 8X digital zoom

0.08Lux@F1.6 (B/W)

0.003Lux@F1.6 (Sens-up)





704 x 576, 704 x 288, 352 x 288(P)









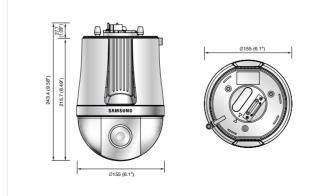




	SNP-3300AN	SNP-3300AP	
/IDEO			
maging Device	1/4" Vertical double density inter	line CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)	
Scanning System	2:1 Interlace		
requency	H: 15.734 KHz/V: 59.94 Hz	H: 15.625 KHz/V: 50Hz	
Horizontal Resolution	Color: 520TV lines (Min.), B/W:		
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		
Notion 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 /		
Vhite Balance	ATW (Indoor / Outdoor) / AWC /		
Electronic Shutter Speed	Auto (NTSC: 1/60 ~ 1/120,000sec, PA	AL: 1/50 ~ 1/120,000) / Manual / A.FLK	
ENS _			
oom Ratio	30X (Optical), 8X (Digital)		
ocal 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)	4.000451.	
Angular Field of View	H:58°(Wide) ~ 2.22°(Tele) / V:4	14.8°(VVide) ~ 1.68°(Tele)	
ocus	Auto / Manual / One-push		
Zoom Movement Speed	5.2sec		
RIS Control	Auto / Manual		
PAN/TILT	000° F		

Dimensions

Unit: mm (inch)



Preset : 240°/sec / Manual : 0.5°~120°/sec (Proportional zoom ratio) -4° ~ 184° Preset: 240°/sec / Manual: 0.5°~120°/sec (Proportional zoom ratio) 128 Preset Accuracy PTZ Mode PERFORMANCE ±0.3° Preset, Swing, Group, Tour, Trace, A. Pan Up to 704 x 480 MPEG-4 / JPEG selectable Up to 30fps@704 x 480 Up to 704 x 576 Encoding Compression Encode Rate Up to 25fps@704 x 576 Transmission Speed
Max. Remote Users
Protocol Support 20 Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP Web viewer, SNM-128S/P (CMS) Area Zoom Password Protection Security Pas INTERFACE 1 BNC (520TV lines) 1 Line / MIC in, Mono, 1Vpp Input Output 1 Line out, Line level, 1Vpp ADPCM Audio Compression Sampling Rate Terminal 4 input, NO/NO Inputs Outputs Terminal 2 output, NO/NC Via e-mail or FTP Remote Notification Connections Ethernet
Storage SD(SDHC) Memory
GENERAL RJ-45 10/100 Base-T Input Voltage
Power Consumption
Operating Temperature
Operating Humidity
Dimension (WxH) Max. 10W -10°C ~ +50°C 20% ~ 80% RH Ø155 x 243.4mm (Ø6.1" x 9.58") Weight Ingress Protection Certifications 2Kg (4.41 lb) IP67 (Optional housing) FCC (Class A), cUL

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

FC (E

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.





1/4" Interline transfer CCD 811(H) x 508(V)

Technical Specifications

VIDEO























- 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 / Dvnamic 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) Security Pa

Ingress Protection

Imaging Device Total Pixels Effective Pixels 768(H) x 494(V) Scanning System Frequency Horizontal Resolution Color: 520TV lines (Min.), B/W: 570 TV Lines (Min.) Color: 0.7Lux (50 IRE@F1.8), 0.005Lux (Sens-up, 128X) B/W: 0.02Lux (50 IRE@F1.8) Min. Illumination S/N(Y signal) S/N (Y signal)
On Screen Display
Camera Title
Camera ID
Day & Night
Backlight Compensation
Motion Detection
Privacy Function
Noise Filter (SSNR)
Sens-up (Frame Integration)
Gain Control
White Balance Built-in On / Off 253 Auto (ICR) / Color / B/W On / Off On / Off (Output via communication) On / Off (4 Programmable zones) On/ On (41 Dight / Off)

Low / Medium / High / Off

On / Off (Selectable limit ~ 128X)

Low / Medium / High / Manual / Off

ATW (Indoor / Outdoor) / AWC / Manual Electronic Shutter Speed LENS Auto (NTSC: 1/60 ~ 1/120,000sec, PAL: 1/50 ~ 1/120,000) / Manual / A.FLK Zoom Ratio Focal Length Max. Aperture Ratio Min. Object Distance 10X (Optical), 10X (Digital) 3.8 ~ 38mm (F1.8) 1:1.6(Wide) ~ 2.8(Tele) H : 51(-2°(Wide) ~ 5.58°(Tele) / V : 39.3°(Wide) ~ 4.27°(Tele) Auto / Manual / One-push Angular Field of View Zoom Movement Speed IRIS Control PAN / TILT 1.67sec Auto / Manual Panning Range Panning Speed 350° Preset : 140°/sec / Manual : 0.5° ~ 70°/sec Tilting Range Tilting Speed Preset Positions -5° ~ 185° Preset : 100°/sec / Manual : 0.5° ~ 50°/sec 128 Preset Accuracy PTZ Mode PERFORMANCE Preset, Swing, Group, Tour, Trace, A. Pan Up to 704 x 480 MPEG-4 / JPEG selectable Up to 30fps@704 x 480 Up to 704 x 576 Resolution Encoding Compression Encode Rate Up to 25fps@704 x 576 In to 100Mhns JO Simultaneously TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP Veb viewer, SNM-128S/P (CMS) Protocol Support Area Zoom Output 1 Line out, Line level, 1Vpp ADPCM Output Audio Compression Sampling Rate Inputs 8KHz Terminal 2 input, NO/NO Terminal 1 output, NO/NC Via e-mail or FTP RJ-45 10/100 Base-T Outputs Remote Notification Alarm Connections Ethernet Storage S GENERAL SD(SDHC) Memory Input Voltage Power Consumption Operating Temperature Operating Humidity

Ø140 x 134.8mm (Ø5.51" x 5.31") 0.85Kg (1.87 lb)

CE (Class A)

IP67 (Optional housing) FCC (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.



iPOLiS

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

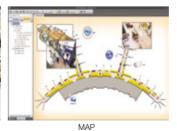
Experience more convenient surveillance through the alarm/event control of the SVM-S1. The SVM-S1 can monitor with pop-up images and lists by receiving event/alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating warning sound, to be performed 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



Technical Specifications

	SVM-S1 (Standard)
	Network Camera: SNC-1300/570, SND-560/460V, SNP-3300A/1000A
Supported Devices	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)
Launches Instant Player	Supported
Controls PTZ Function	Pan, Tilt, Zoom, Focus, Preset
FTP/E-mail Notification	Supported
Snapshot / Prints Image	Supported
Local (Remote) Playback / Back up	Supported
Converts Video Format	AVI
Search	Timeline index search, Thumbnail image search,
Couron	Calendar search
Zooms in/out on the Image	Supported
Snapshot / Prints Image	Supported
Display	Live image, Current event log on the list
Filtering	Selected device
Group / User	Admin: 1 / User: 5
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
ecifications	CPU : Intel Core2Duo E6750, RAM : 2GB above
comoations	Video memory : 512MB, HDD : 80GB above
	OS: Window XP/Vista, DirectX 9.0 above
	Display resolution: 1,280 x 1,024 above
	Max. Register Device Multi-monitor Screen-split Modes Launches Instant Player Controls PTZ Function FTP/E-mail Notification Snapshot / Prints Image Local (Remote) Playback / Back up Converts Video Format Search Zooms in/out on the Image Snapshot / Prints Image Display Filtering Group / User Live Monitoring Map division Alarm out / Sensor in Number of Map

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

SAMSUNG DIGITAL CCTV SYSTEMS 94 SAMSUNG DIGITAL CCTV SYSTEMS 95

ISNM-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.



SAMSUNG TECHWIN

iPOLi5

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)
		Network Camera: SNC-1300/570, SND-560/460V, SNP-3300A/1000/
Device	Supported Devices	Video Encoder: SNS-400/100
to Use		DVR:SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450
	Max. Register Device	1000
	Multi-monitor	Max. 6
	Screen-split Modes	1/4/6/8/9/16/25/36/49/64 (Full-screen)
Live	Launches Instant Player	DVR only
Monitoring	,	Pan, Tilt, Zoom, Focus, Preset
ŭ	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Local (Remote) Playback / Back up	Supported
	Converts Video Format	AVI
		Go to a certain time, Latest data search,
Playback	Search	Timeline index search, Thumbnail image search
•	Zooms in/out on the Image	Supported
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	5	Current event log on the list, live image,
Event Signal	Display	Changes border of live video channel to red
Monitoring	Filtering	Unnecessary signal
	Event image Playback	DVR only
	Displays	Current alarm log on the list, Live/thumbnail image
	Catua	A certain period of time of a day, A certain types of alarms
	Set up	Automated notifications to user, Schedules actions against alarms
	Event Image Playback	DVR only
Alarm Signal	Controls Preset on PTZ Camera	Supported
Monitoring	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
IAIV	Supports Image	JPEG/BMP
		CPU : Intel Core2Duo E4300, RAM : 2GB above
Sustan Sa	ocifications	Video memory: 256MB, HDD: 80GB
System Specifications		OS: Window 2000/XP SP2, DirectX 9.0 above
		Display resolution: 1,024 x 768 above

ISNM-64P

Centralized Video Management Software

Overview

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



iPOLiS

Features

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

Various alarm & event control

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

Alarm control station (Window for alarm status control only)

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







Accessories

USB Dongle Key



Technical Specifications

	•	
		SNM-64P (Professional)
		Network Camera: SNC-1300/570, SND-560/460V, SNP-3300A/1000A
Device	Supported Devices	Video Encoder: SNS-400/100
to Use		DVR: SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450
	Max. Register Device	No limit
	Multi-monitor	Max. 3 (Live 2)
	Screen-split Modes	1/4/6/8/9/16/25/36/49/64 (Full-screen)
Live	Launches Instant Player	DVR only
Monitoring	Controls PTZ Function	Pan, Tilt, Zoom, Focus, Preset
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Local (Remote) Playback / Back up	Supported
	Converts Video Format	AVI
	Search	Go to a certain time, Latest data search,
Playback	Search	Timeline index search, Thumbnail image search
	Zooms in/out on the Image	Supported
	FTP/E-mail Notification	Supported
	Snapshot / Prints Image	Supported
	Display	Current event log on the list, live image,
Event Signal		Changes border of live video channel to red
Monitoring	Filtering	Unnecessary signal
	Event image Playback	DVR only
	Displays	Current alarm log on the list, Live/thumbnail image
	Cotup	A certain period of time of a day, A certain types of alarms
	Set up	Automated notifications to user, Schedules actions against alarms
	Event Image Playback	DVR only
Alarm Signal	Controls Preset on PTZ Camera	Supported
Monitoring	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
IVIAP	Supports Image	JPEG/BMP
		CPU: Intel Core2Duo E4300, RAM: 2GB above
System Specifications		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.



ISNR-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.





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.





MPFG-

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

Supported Supported Devices Network Camera: SNC-130 Video Encoder: SNS-			,	60V, SNP-3300A/1000
H/VV	Max. Register Device	No limit		
	Max. Record Channel	32	16	9
Performance	Recording	480 CIF	480 CIF	270 CIF
	Playback	5 Client	5 Client	5 Client
	Video Codec	MPEG-4, JPEG		
	Audio Codec	ADPCM		
	Resolution	D1, Half D1, CIF		
Recording	Quality	5 level		
Recording	Pre/Post Recording Time	60sec / 60sec		
	Recording Mode	Continue, Schedu	ile, MD, Event, Con	npound
	0-4	Configurable frame rate for each		
	Set up	CH (1~30(N),1~25(P)), Channel independent set up		
Component	Camera / Sensor / Relay	32/32/32	16/16/16	9/9/9
Search	Search Mode	Time/Calendar, Timeline, Thumbnail		
04	Space Configuration (Each Drive)	Supported		
Storage	Space Shortage Warning	Supported		
	NAS (Network Attached Storage)	Supported (External)		
	User Level	2		
User	Local (Remote) User	Group: 1, User: No limit		
	IP Filterling (Remote user)	Supported		
S/W Status		Record, Record schedule, Storage,		
5/W Status		Live/Recording image (Instant viewer)		
Data Security Technology	Login Packet Encryption	Supported		
System		System auto recovery, Auto power-on record		
		CPU : Intel Core2l	Duo E8400, RAM :	2GB above
System Specifications		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





Your source for Professional Video Security Solutions



CONTROLLER

Samsung Digital Security Systems



SAMSUNG TECHWIN



System Controller for PTZ Dome Cameras, DVRs and Matrix Switchers

F© (E

Overview

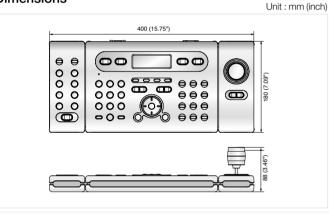
The Samsung SCC-3100A is a keyboard controller capable of controlling up to 255 PTZ dome cameras, DVRs, matrix switchers and receivers simultaneously. It offers powerful system compatibility with multiple protocols. And its intuitive keypad, large LCD window and ergonomic design allows more ease and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

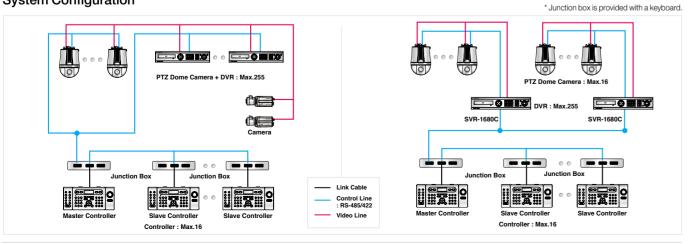
Dimensions



Technical Specifications

		SCC-3100A	
Included	Input	100V AC ~ 240V AC (50/60Hz)	
Power Supply	Output	12V DC, 700mA	
Connector		3 Port	
LCD Display		20 x 4 Character LCD	
PTZ Control		Joystick (3-axis twist zoom)	
Sub Controller		Max. 16 unit connection	
		Samsung Techwin PTZ Dome	
	PTZ Dome	Pelco-D/P, Panasonic (WV-CS854)	
Compatible		Samsung Electronics (SCC-643/641)	
Hardware	DVR	SVR-3200/1680C/1660C/1645/960C/945/940/450	
	Receiver	SRX-100B	
	Matrix	SMX-25632	
Control Capacit	у	Max. 255	
Auto Surveilland	20	Tour, Group, Swing, Preset etc.	
Auto Sui veillai it	Je	Selection of PTZ, DVR: Each ID input	
Communication	1	RS-485/422 (Remote control 1.2Km above possibility)	
	Communication Set	Asynchronism serial, 1 Start bit, No parity, 1 Stop bit	
RS-485/422 Spec.	Transmission Method	Half duplex / Full duplex	
110-400/422 Opec.	Baud Rate (bps)	4,800 ~ 38,400bps (9,600bps Promotion)	
	Daud Hate (Dps)	Sub controller communication 57,600bps fixation	
Operating Temperature		0°C ~ 40°C	
Operating Humidity		10% ~ 75%	
Dimensions (WxHxD)		400 x 180 x 88mm (15.75" x 7.09" x 3.46")	
Weight		1.5Kg (3.31 lb) (Without adapter)	
Certifications		FCC (Class A), CE (Class A)	

System Configuration



SCC-1000 PTZ Control Keyboard

Overview

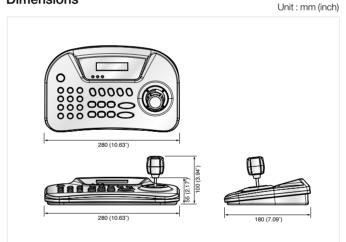
The SCC-1000 lets the operator have simultaneously control of up to 255 PTZ cameras. It offers superior system compatibility with support for multiple protocols.



Features

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

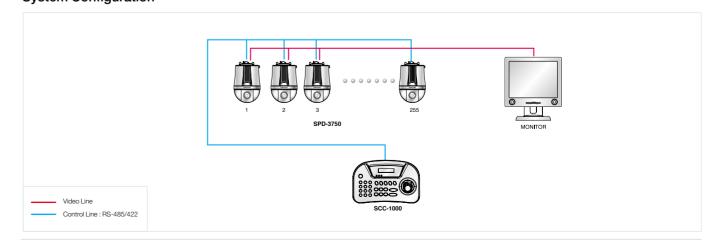
Dimensions



Technical Specifications

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

System Configuration



SAMSUNG DIGITAL CCTV SYSTEMS_100 SAMSUNG DIGITAL CCTV SYSTEMS_101

(€

ISDQ-420

Dual Color Quad Switcher

Overview

The SDQ-420 is a dual color guad 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.



Technical Specifications

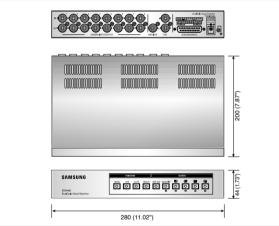
SAMSUNG TECHWIN

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

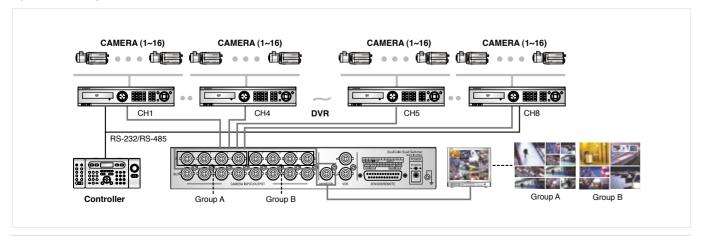
Dimensions





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)

System Configuration



SMX-25632

256 Input / 32 Output Video Matrix Switcher

Overview

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

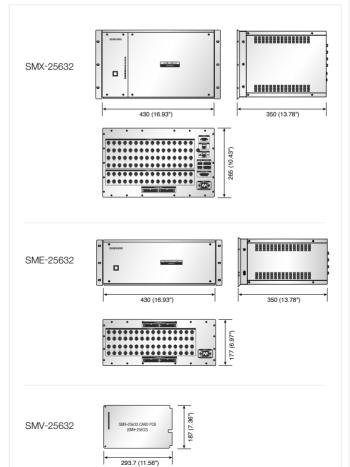


Features

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

Dimensions

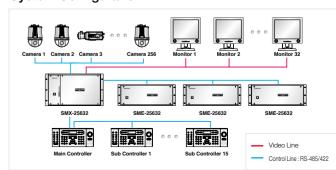
Unit: mm (inch)



Technical Specifications

	SMX-25632 (Matrix CPU)			
System	16 Video card slots, Controller interface			
Fastones	256 x 32 Video matrix control			
Features	Video extension unit connector (Up to 3 sets)			
OSD	Displays 16 Korean characters or 32 alphabet letters, numbers, or symbols			
090	Date / Time display			
Camera I/O	64 Camera input, 32 Monitor output			
Camera I/O	(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)			
	2 Monitor output			
Features	Time generator, I/D generator, Video I/O selector, Video sync correction			
000	32 Alphabet letters or 16 Korean characters (Combinations allowed)			
OSD	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 Configu	ration			

System Configuration



SAMSUNG DIGITAL CCTV SYSTEMS 102 SAMSUNG DIGITAL CCTV SYSTEMS 103 Your source for Professional Video Security Solution



MONITOR

Samsung Digital Security Systems



SAMSUNG TECHWIN



MONITOR SELECTION

STM-17LA: 6.2Kg (13.67 lb)



STM-17LP: 5.85Kg (12.9 lb)

STM-32L: 22.6Kg (49.82 lb)

STM-17LM: 5.57Kg (12.28 lb)

FC W (F



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

If you are using high resolution Samsung Techwin cameras and DVRs,

added resolution. Samsung Techwin Monitors are engineered to match

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

All Samsung Techwin's LCD monitors offer outstanding video

performance, exceptionally high-resolution of SXGA (1280 x 1024) and

choice.

the high performance of our cameras and recording systems.

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.

the monitors used in the system need to be capable of reproducing the

Response Time

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



Viewing Angle

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

STM-19LA/17LA

19". 17" TFT-LCD Color Monitor

Overview

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



19717 BNC 1000:1 1280x1024 300 cf/m 5ms (Glass) Protection State (Section 1988) 1000 cf/m (Secti

• 1,280 x 1,024@60Hz resolution

Protective glass over LCD panel

Included power supply: 12V DC, 4.16A

• 300cd/m² High brightness

• 5ms Response time

Built-in speakers

• 800 : 1 High contrast ratio (STM-19LA)

1,000: 1 High contrast ratio (STM-17LA)



• 2 BNC loop through, S-Video with loop-through, VGA inputs











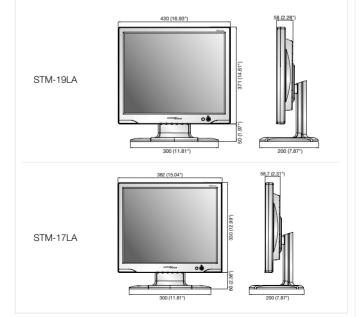
Technical Specifications

		STM-19LA	STM-17LA			
	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/m ²				
	Contrast Ratio	800:1 1,000:1				
Display	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				
	Video In / Out	2/2 (BNC type)				
Interface	RGB In	1 (15Pin D-Sub)				
interface	Audio In / Out	2 (RCA type)				
	PC Stereo In	H/V) 160° / 160° 16.7Million 5 ms NTSC / PAL 31 ~ 64KHz / 50 ~ 75Hz 2W x 2 2 / 2 (BNC type) 1 (15Pin D-Sub) 2 (RCA type) 1 4 Control Yes 4 Glass Yes e Kit Optional nguage English, Spanish, French, German, Italian mpatible Yes				
Controller	Transmitter Remote Control	Yes				
	LCD Protection Glass	Yes				
Features	Rack Mountable Kit	Optional				
reatures	Multi-lingual Language	English, Spanish, French, German, Italian, Portuguese, Dutch				
	VESA™ DDC Compatible	19" 17" Active Matrix TFT 1,280 x 1,024@60Hz 0.294 x 0.294mm (0.012*x 0.012*) 0.264 x 0.264mm (0.01*x 0.01*) 300cd/m² 800 : 1 1,000 : 1 5 : 4 160° / 160° 16.7Million 5ms NTSC / PAL 31 ~ 64KHz / 50 ~ 75Hz 2W x 2 2 / 2 (BNC type) 1 (15Pin D-Sub) 2 (RCA type) 1 (15Pin D-Sub) 2 (RCA type) 1 (15Pin Semmins, French, German, Italian, Portuguese, Dutch Yes SS Yes Optional English, Spanish, French, German, Italian, Portuguese, Dutch Yes and) 430 x421 x200mm (16.93*x16.57*x7.87*) 382 x390 x200mm (15.04*x15.35*x7.87* and) 430 x371 x58mm (16.93*x14.61*x2.28*) 382 x300 x58.mm (15.04*x12.99*x2.3* 490 x506 x225mm (19.29*x19.92*x8.86*) 436 x476 x225mm (17.17*x18.74*x8.86*6.61 Kg (14.57 lb) 6.2 Kg (13.67 lb) Black / Yes VESA 100 x 100mm (3.937" x 3.937") Max. 42W Max. 36W 12V DC / 4.16A				
	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				
Dimensions	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")			
Controller Features Dimensions	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	0 ()	6.2Kg (13.67 lb)			
Cabinet	Cabinet Finish / Tilt Stand	Black / Yes				
Mounts	Mounts Size	VESA 100 x 100mm (3.937" >				
	Consumption	Max. 42W Max. 36W				
Electrical	Electrical Ratings	12V DC / 4.16A				
Licultual	Operating Temperature					
	Certifications	FCC (Class A), UL/cUL listed, CE (Class A)				

Dimensions

Features

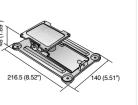
Unit · mm (inch)



Optional Accessory







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).

SAMSUNG DIGITAL CCTV SYSTEMS 106

ISTM-19LM/17LM

19", 17" TFT-LCD Color Monitor



Overview

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



SAMSUNG TECHWIN





















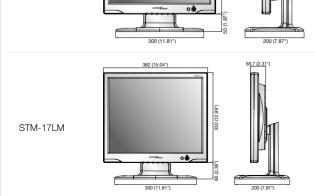
Unit: mm (inch)

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

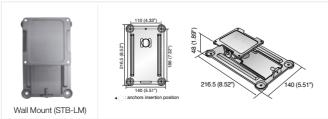




Technical Specifications

		STM-19LM	STM-17LM			
	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				
Display	Aspect Ratio	5:4				
	Viewing Angle (H/V)	160° / 160°				
	Display Color	16.7Million				
	Response Time	5ms				
	Video System	NTSC / PAL				
Display Audio Interface Controller Features Dimensions Cabinet Mounts Electrical	Frequency (H/V)	31 ~ 82KHz / 50 ~ 77Hz				
Audio	Built in Speakers	2W x 2				
	Video In / Out	2 / 2 (BNC type)				
Interface	RGB In	1 (15Pin D-Sub)				
	Audio In / Out	2 (RCA type)				
	PC Stereo In	19" 17" Active Matrix TFT 1,280 x 1,024@60Hz 0.294 x 0.294mm (0.012" x 0.012") 0.264 x 0.264mm (0.01" x 0.01" x 0.00 cd/m² 800 : 1 1,000 : 1 5 : 4 (V) 160° / 160° 16.7Million 5ms NTSC / PAL 31 ~ 82KHz / 50 ~ 77Hz 2W x 2 2 / 2 (BNC type) 1 (15Pin D-Sub) 2 (RCA type) 1 (15Pin D-Sub) 2 (RCA type) 1 (15Pin Sem (16.93" x 16.57" x 7.87") 40x x 2 x 2 x 32 x 32 x 32 x 32 x 32 x 32				
Controller	Transmitter Remote Control	2W x 2 2 / 2 (BNC type) 1 (15Pin D-Sub) 2 (RCA type) 1 Yes Yes Optional				
	LCD Protection Glass	Yes				
Foatures	Rack Mountable Kit	The state of the s				
i catules	Multi-lingual Language	English, Spanish, French, Chinese				
	VESA™ DDC Compatible	19" 17" Active Matrix TFT 1,280 x 1,024@60Hz 0.294 x 0.294mm (0.012' x 0.012') 0.264 x 0.264mm (0.01' x 300cd/m² 800 : 1 1,000 : 1 5 : 4 160° / 160° 16.7Million 5ms NTSC / PAL 31 ~ 82KHz / 50 ~ 77Hz 2W x 2 2 / 2 (BNC type) 1 (15Pin D-Sub) 2 (RCA type) 1 Yes Yes Optional English, Spanish, French, Chinese Yes 0 430 x 421 x 200mm (16.93" x 16.57" x 7.87") 382 x 390 x 200mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (16.93" x 14.61" x 2.28") 382 x 330 x 58.7mm (15.04" x 15. 40 x 371 x 58mm (15.04" x 15. 40 x				
	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")				
Dimensions	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")			
Diricisions	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	Cabinet Finish / Tilt Stand	• · · · · · · · · · · · · · · · · · · ·				
Mounts	Mounts Size	VESA 100 x 100mm (3.937")	(3.937")			
	Consumption	Max. 42W Max. 36W				
Flectrical	Electrical Ratings	12V DC / 4A				
Electrical	Operating Temperature	0 ~ 40°C				
	Certifications	FCC (Class A), UL/cUL listed,	CE (Class A), CCC			

Optional Accessory



ISTM-19LP/17LP

19", 17" TFT-LCD Monitor for DVRs



Overview

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

















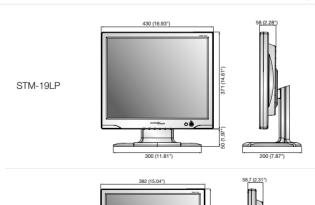


Unit: mm (inch)

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

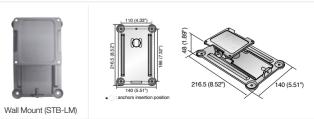




Technical Specifications

		STM-19LP	STM-17LP			
	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/m ²				
	Contrast Ratio	800:1	1,000 : 1			
Display	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				
	LCD Protection Glass	Yes				
Features	Rack Mountable Kit	Optional				
i catules	Multi-lingual Language	English, Spanish, French, German, Korean				
	$VESA^{\mathsf{TM}}DDCCompatible$	Yes				
	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")			
Dimensions	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")			
Dillicisions	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	Cabinet Finish / Tilt Stand	Black / Yes				
Mounts	Mounts Size	VESA 100 x 100mm (3.937" x 3.937")				
	Consumption	Max. 42W Max. 36W				
Flectrical	Electrical Ratings	12V DC / 4A				
Electrical	Operating Temperature	0 ~ 40°C				
	Certifications	FCC (Class A), UL/cUL listed, CE (Class A)				

Optional Accessory



SAMSUNG DIGITAL CCTV SYSTEMS 108 SAMSUNG DIGITAL CCTV SYSTEMS 109



ISTM-42L/32L

42", 32" TFT-LCD Color Monitor

Overview

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





Features

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

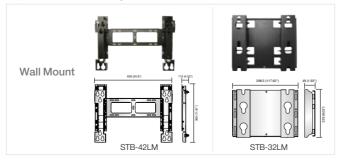
Dimensions



Technical Specifications

		STM-42L	STM-32L			
	Screen Size	42"	32"			
Features	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/m ²				
	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				
	Video In / Out	2 / 2 (BNC type)				
Audio Interface Controller Features Dimensions Cabinet Mounts	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				
	Filter Type	3D Comfilter / DeInterace				
Features	LCD Protection Glass	Active Matrix TFT 1,366 x 768@60Hz 0.227 x 0.881mm (0.009' x 0.03') 500cd/m² 1,100 : 1 3,000 : 1 16 : 9 178°/178° 16.7Million 5ms 8ms NTSC / PAL 45 ~ 50 KHz / 47 ~ 63 KHz 2W x 2 2 / 2 (BNC type) (Y/C, Loop-Through Out) 1 (15Pin D-Sub) 1 1 (RCA Type) 2 1 (RCA Type) 3 3D Comfilter / DeInterace 5 Yes Optional 1				
	Rack Mountable Kit	Optional				
	Multi-lingual Language	English, Spanish, French, German	n, Italian, Portuguese, Dutch			
	VESA™ DDC Compatible	Yes				
			792 x 488.5 x 226.6mm (28.82" x 19.23" x 8.92")			
Dimonoio	, ,	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")			
Video System NTSC / P Frequency (H/V) 45 ~ 50 K Audio Built in Speakers 2W x 2 Video In / Out 2 / 2 (BMC) S-Video In / Out (Y/C, Loo RGB In (15Pin D-DVI In 1 HDMI 1 Trigger 1 Audio In / Out (RCA Typ PC Stereo In 1 Transmitter Remote Control PIP (Picture in Picture) Yes PBP (Picture in Picture) Features LCD Protection Glass Rack Mountable Kit Multi-lingual Language Yes Optional Multi-lingual Language Sids x 730 x 30 Outline Dimension (With Stand) 1083 x 655 x 120 Net Weight 31 kg (68 x 120 Mounts Mounts Size 30 x 130 x 68 Regulation TUV NRT Fleatical Tuv NRT	Net Weight		22.6Kg (49.8lbs)			
		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)			
Classica.	Consumption	Max. 42W Max. 36W				
Audio Interface Controller Features Dimensions Cabinet Mounts	Electrical Ratings	AC100 ~ 240V (50/60Hz)				
	Operating Temperature	0 ~ 40°C				

Optional Accessory



PRODUCTINDEX

SCC-1000	PTZ Control Keyboard	101P	SPD-3700	1/4" W-IV 37X Zoom PTZ Dome Camera	33P
SCC-3100A	Speed Dome, DVR & Matrix Controller	100P	SPD-3700T	1/4" W-IV 37X Zoom PTZ Dome Camera	33P
SDC-313B	1/3" W-III High Resolution Camera	22P	SPD-3750	1/4" SV-IV 37X Zoom PTZ Dome Camera	31P
SDC-415	1/3" W-III Day & Night Camera	21P	SPD-3750T	1/4" SV-IV 37X Zoom PTZ Dome Camera	31P
SDC-425 SDC-435	1/3" W-IV High Resolution, Day & Night Camera 1/3" W-V High Resolution, Day & Night Camera	20P 19P	SPU-3700 SPU-3750T	1/4" W-IV 37X Zoom PTZ Dome Camera 1/4" SV-IV 37X Zoom PTZ Dome Camera	30P 29P
SDN-550	1/3" W-III Day & Night Camera	18P	STB-225VW	Wall Mount	55P
SDQ-420	Dual Color Quad Switcher	102P	STB-225VWS	Wall Mount	55P
SDZ-370	1/4" W-IV High Resolution, 37X Zoom Camera	26P	STB-230PW	Wall Mount	54P
SDZ-375	1/4" SV-IV High Resolution, WDR 37X Zoom Camera	25P	STB-249VWS	Wall Mount	55P
SHC-735	1/3" SV-IV High Resolution, WDR Camera	17P	STB-249VPW	Wall Mount	55P
SHC-737	1/3" SV-IV Ultra Low Light, High Resolution Camera	16P	STB-25PF	Flange	53P
SHC-745	1/2" SV-IV Ultra Low Light, High Resolution Camera	15P	STB-250VC	Conner Mount	55P
SHC-750	1/2" EM-CCD Extreme Ultra Low Light Camera	14P	STB-250VCW	Conner Mount	55P
SID-370	1/4" W-IV High Resolution, 37X Zoom Camera	40P	STB-270B	Wall Setup Box	52P
SID-45C	1/3" W-III Day & Night Dome Camera	46P	STB-270PWV	Wall Mount	53P
SID-450	1/3" W-III High Resolution Dome Camera	44P	STB-275VW	Wall Mount	55P
SID-452	1/3" W-III High Resolution Dome Camera	44P	STB-275VWS	Wall Mount	55P
SID-46C SID-460	1/3" W-III Day & Night Dome Camera 1/3" W-IV High Resolution, Day & Night Dome Camera	46P 42P	STB-280PW STB-30PF	Wall Mount Ceiling Flange	54P 53P
SID-460W	1/3" W-IV High Resolution, Day & Night Dome Camera	42P	STB-319VPS	Pendant Mount	55P
SID-462	1/3" W-IV High Resolution, Day & Night Dome Camera	42P	STB-319VPW	Pendant Mount	55P
SID-462W	1/3" W-IV High Resolution, Day & Night Dome Camera	42P	STB-32LM	Wall Mount	110P
SID-47	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-330PPM	Pole Mount	53P
SID-47W	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-340PCM	Conner Mount	53P
SID-48	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-350PPM	Parapet Mount	53P
SID-48W	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-370PC	Ceiling Mount	52P
SID-49	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-400	Wall Mount	56P
SID-49W	1/3" W-IV High Resolution, Day & Night Dome Camera	45P	STB-4150V	Wall Mount	56P
SID-500	1/4" W-III Day & Night, 10X Zoom Dome Camera	43P	STB-42LM	Wall Mount	110P
SID-50	1/3" W-III High Resolution Mini Dome Camera	48P	STB-496PPV	Pendant Mount	53P
SID-53 SID-53W	1/3" W-IV High Resolution Mini Dome Camera 1/3" W-IV High Resolution Mini Dome Camera	47P 47P	STB-LM STC-14	Wall Mount High Performance Thermal Night Vision Camera	107P 13P
SID-55W	1/3 W-IV High Resolution Mini Dome Camera	47F 47P	STH-1000PI	Indoor Housing	54P
SID-56W	1/3" W-IV High Resolution Mini Dome Camera	47P	STH-1000PO	Outdoor Housing	54P
SID-560	1/3" SV-IV High Resolution, WDR Dome Camera	41P	STH-200	Indoor Housing	56P
SID-560W	1/3" SV-IV High Resolution, WDR Dome Camera	41P	STH-350	Indoor Housing	56P
SID-562	1/3" SV-IV High Resolution, WDR Dome Camera	41P	STH-360PO	Outdoor Housing	52P
SID-562W	1/3" SV-IV High Resolution, WDR Dome Camera	41P	STH-370PE	Embedded Housing	52P
SIR-4150	1/3" W-III High Resolution IR LED Camera	28P	STH-370PI	Indoor Housing	52P
SIR-4160	1/3" W-V High Resolution IR LED Camera	27P	STH-370PO	Outdoor Housing	52P
SIR-4250S	1/3" W-III High Resolution IR LED Dome Camera	50P	STH-380PO	Outdoor Housing	52P
SIR-4250W	1/3" W-III High Resolution IR LED Dome Camera	50P	STH-500	Indoor/Outdoor Housing	56P
SIR-4260 SIR-60	1/3" W-V High Resolution IR LED Vandal-proof Dome Camera 1/3" W-IV High Resolution IR LED Dome Camera	49P 51P	STH-500H STH-600	Indoor/Outdoor Housing Indoor/Outdoor Housing	56P 56P
SLA-2810D	1/3 " CS-Mount Varifocal Lens	62P	STH-600H	Indoor/Outdoor Housing	56P
SLA-2510D SLA-3580DN	1/3" CS-Mount Varifocal Lens	62P	STM-17LA	17" TFT-LCD Color Monitor	107P
SLA-550DA	1/3" CS-Mount Varifocal Lens	62P	STM-17LM	17" TFT-LCD Color Monitor	108P
LA-880	1/2" C-Mount Motorized 10X Zoom Lens	61P	STM-17LP	17" TFT-LCD Monitor for DVRs	109P
ME-25632	Matrix Extension Bay	103P	STM-19LA	19" TFT-LCD Color Monitor	107P
SMV-25632	Matrix Video Card	103P	STM-19LM	19" TFT-LCD Color Monitor	108P
SMX-25632	Matrix CPU	103P	STM-19LP	19" TFT-LCD Monitor for DVRs	109P
SNC-1300	1/3" IPOLIS, High Performance Megapixel Network Camera	89P	STM-32L	32" TFT-LCD Color Monitor	110P
SNC-570	1/3" SV-IV IPOLIS, WDR Network Camera	90P	STM-42L	42" TFT-LCD Color Monitor	110P
SND-460V	1/3" W-IV IPOLIS, High Resolution Network Dome Camera	92P	SVD-4300	1/4" W-Ⅲ10X Zoom Vandal-proof Dome Camera	39P
SND-560	1/3" SV-IV IPOLIS, WDR Network Dome Camera	91P	SVD-4300W	1/4" W-III 10X Zoom Vandal-proof Dome Camera	39P
SNM-128P	IPOLIS, Centralized Video Management Software	96P 97P	SVD-4400	1/3" W-IV High Resolution, Day & Night Vandal-proof Dome Camera	
SNM-64P SNP-1000A	IPOLIS, Centralized Video Management Software 1/3" W-III IPOLIS, 10X Zoom PTZ Network Camera	97P 94P	SVD-4600 SVD-4600W	1/3" SV-IV High Resolution, WDR Vandal-proof Dome Camera 1/3" SV-IV High Resolution, WDR Vandal-proof Dome Camera	37P 37P
SNP-3300A	1/3" SV-III IPOLIS, 30X Zoom PTZ Network Camera	93P	SVM-S1	IPOLIS, Centralized Video Management Software	95P
SNR-16A	IPOLIS, 16 Channel Network Recorder Software	98P	SVR-1645	16 Channel Stand-Alone DVR	72P
SNR-32A	IPOLIS, 32 Channel Network Recorder Software	98P	SVR-1660C	16 Channel Stand-Alone DVR	71P
SNR-3200	IPOLIS, 32 Channel Network Video Recorder	86P	SVR-1680C	16 Channel Stand-Alone DVR	70P
SNR-6400	IPOLIS, 64 Channel Network Video Recorder	86P	SVR-3200	32 Channel Stand-Alone DVR	69P
SNR-9A	IPOLIS, 9 Channel Network Recorder Software	98P	SVR-440	4 Channel Stand-Alone DVR	79P
NS-100	IPOLIS, 1 Channel Network Video Encoder	88P	SVR-450	4 Channel Stand-Alone DVR	78P
SNS-400	IPOLIS, 4 Channel Network Video Encoder	88P	SVR-470	4 Channel Stand-Alone DVR	77P
SOC-4030	1/3" W-III Built-in V/F Lens Camera	24P	SVR-480	4 Channel Stand-Alone DVR	76P
SOC-4160	1/3" W-V High Resolution with Built-in V/F Lens Camera	23P	SVR-940	9 Channel Stand-Alone DVR	75P
SPD-1000	1/4" W-III 10X Zoom PTZ Dome Camera	36P	SVR-945	9 Channel Stand-Alone DVR	74P
PD-2700	1/4" W-IV 27X Zoom PTZ Dome Camera	35P	SVR-960C	9 Channel Stand-Alone DVR	73P
PD-3310	1/4" W-IV 33X Zoom PTZ Dome Camera	33P 31P	SVS-5E SVS-5B	HDD Extension Unit	80P 80P
SPD-3350	1/4" SV-IV 33X Zoom PTZ Dome Camera	317	SVS-5R	RAID 5 Unit	OUP

SAMSUNG DIGITAL CCTV SYSTEMS_110 SAMSUNG DIGITAL CCTV SYSTEMS_111