RECORDERS

Natural image, clear definition

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Comparison Chart by Model

Standalone DVR

Digital Video

SHR-2040 / SHR-2042 SHR-2080 / SHR-2082 SHR-2160 / SHR-2162 SHR-4081 SHR-4160 GV-EM130DD GV-EM412DD

Real Time VCR SVR-960A

DVR

Sold by: TWA comme com http://www.TWAcomm.com Toll Free: (877) 389-0000

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DVR Comparison Chart by Model

Stand Alone DVRs

Models	SHR-2040	SHR-2042	SHR-2080	SHR-2082
Spec.				
HDD Basic	250GB	250GB	250GB	250GB
Max. Expansion	500GB x 3	500GB x 2	500GB x 4	500GB x 3
Display Speed (ips)	120ips	120ips	240ips	240ips
Recording Speed	120ips	120ips	120ips	120ips
Remote Control	RS-485 (PTZ)	RS-485 (PTZ)	RS-485 (PTZ)	RS-485 (PTZ)
Data Back Up	USB / External CD-RW	USB/Built-in CD-RW	USB/ External CD-RW	USB/Built-in CD-RW
Multiplex Function	Triplex	Triplex	Triplex	Triplex
Power Requirements	12VDC, 4.5A	AC100~240V, 50/60Hz	AC100~240V,50 / 60HZ	AC100~240V,50 / 60Hz
Weight Ib	7.3	16.1	14.3	16.1
Dimensions in (WxHxD)	84.5 x 3.5 x 13.3	16.9 x 3.5 x 15.7	16.9 x 3.5 x 15.7	16.9 x 3.5 x 15.7

Stand Alone DVRs

Models	SHR-2160	SHR-2162	SHR-4081	SHR-4160
Spec.			Com	THE ST
HDD Basic	250GB	250GB	250GB	250GB
Max. Expansion	500GB x 4	500GB x 3	250GB x 4	250GB x 4
Display Speed (ips)	480ips	480ips	240ips	480ips
Recording Speed	120ips	120ips	240ips	360ips
Remote Control	RS-485 (PTZ)	RS-485 (PTZ)	RS-485 (PTZ)	RS-485 (PTZ)
Data Back Up	USB/ External CD-RW	USB/Built-in CD-RW	Ultra SCSI / IEEE-1394	Ultra SCSI / IEEE-1394
Multiplex Function	Triplex	Triplex	Triplex	Triplex
Power Requirements	AC100~240V,50 / 60Hz	AC100~240V,50 / 60Hz	AC100~240V,50 / 60Hz	AC100~240V,50 / 60Hz
Weight Ib	14.3	16.1	14.3	14.3
Dimensions in (WxHxD)	16.9 x 3.5 x 15.7	16.9 x 3.5 x 15.7	16.9 x 3.5x15.7	16.9 x 3.5 x 15.7

Removable Hard Drive DVRs

Models	GV-EM130DD	GV-EM412DD	GV-EM412M
Spec.	Barren 70	Barren (*	(Metal Case Included)
Max. Expansion	500GB	500GB	500GB
Display Speed (IPS)	30ips	120ips	120ips
Recording Speed	30ips	120ips	120ips
Remote Control Wired	N/Å	N/A	Yes
Data Backup	Compact Flash, Network	Compact Flash, Network	Compact Flash, Network
	and Removable HDD	and Removable HDD	and Removable HDD
Multiplex Functions	Simplex	Simplex	Simplex
Power Requirements	12Vdc Power Supply Included	12Vdc Power Supply Included	12Vdc
Weight Ib	7.1	7.3	7.7
Dimensions (WxDxH)	6.3 x 9.8 x 3.5	6.3 x 9.8 x 3.5	6.3 x 9.8 x 3.5

GV-VB-59SP

2 Wire Video Transceiver Over CAT5



The two wire video transceiver video balun is a surge protected tool-less terminal/BNC connector that enables you to transmit color images 2200 feet and B/W images 2500 feet over CAT5 cable. No screws or tools are required for installation.



SHR-2040 / SHR-2042 4 Channel Standalone Digital Video Recorder



The SHR-2040/ SHR-2042 is a 4 channel Improved MPEG-4 Digital Video Recorder capable of recording 120ips in CIF mode. The SHR-2040/ SHR-2042 operates in Triplex mode (monitoring/playback/recording) and can also record synchronized audio on 4 channels at selectable resolutions CIF & Half D1. Minimum file size is 2.5Kbyte @ CIF: 352x240, Half D1: 720x240. Each channel can independently record at variable rates helping reduce HDD storage.

The SHR-2040/ SHR-2042 includes built-in front USB 2.0 slot for expanded external storage. The USB 2.0 slot can be used for internal HDD expansion or external Back Up storage. It can also be used with a memory stick adding speed and convenience to video clip downloads.

DVR



SHR-2040 / SHR-2042 4 Channel Standalone Digital Video Recorder

Accessories Additional hard drives

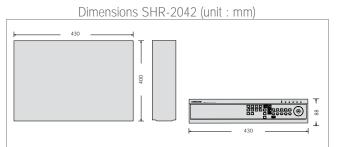
GV-160GBHD, 160GB Fixed Hard Drive

GV-250GBHD, 250GB Fixed Hard Drive

GV-500GBHD, 500GB Fixed Hard Drive

Features • Four Channel DVR

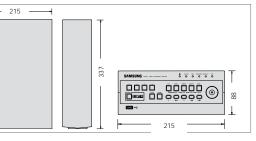
- Triplex Operation (Monitoring/Playback/Recording)
- Resolution: CIF, Half D1
- Improved MPEG-4 (Compression)
- (Min. File Size 2.5K)
- · Recording Rate: Max. 120ips (CIF)
- Built In CD-RW, USB 2.0
- · Back Up: USB HDD, CD-RW (SHR-2042 Only), Memory
- Audio Recording: 4 IN/1 OUT
- Motion Detection
- PTZ Control
- Loop Through Video
- Ethernet 10/100 Base T
- DDNS support (Multiple Options)
- Available Without CD-RW As SHR-2040
 Audio Through Internet Supported



Specifications

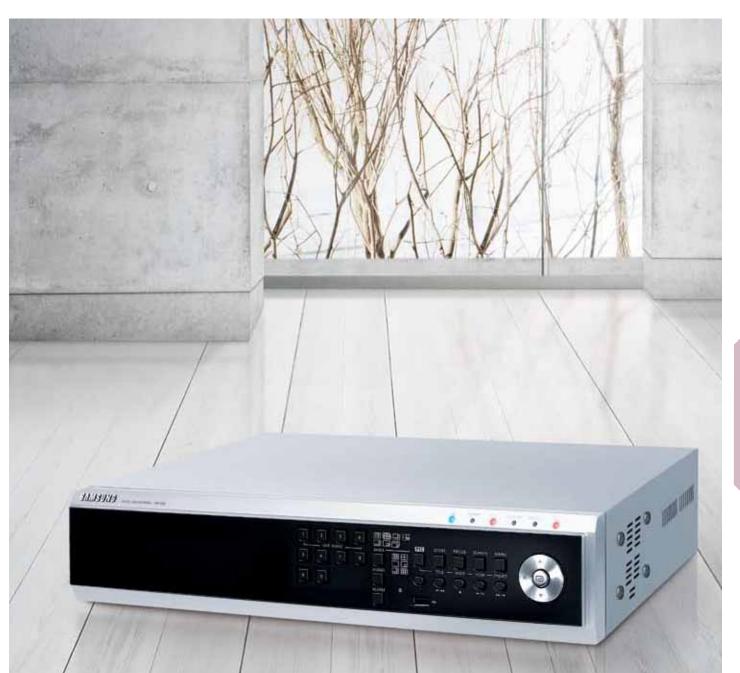
		A Channel Video Innut
DVR Type		4 Channel Video Input
Operating System	امعدماها	Embedded OS
Storage	Internal	250GB
	Internal capacity	500GB x 3 (SHR-2040)
		500GB x 2 (SHR-2042)
	External	USB HDD 250GB (optional)
Video	Input	4 Channel, (1Vp-p unbalanced, 75 ohm)
	Output	4 Channel, (1Vp-p unbalanced, 75 ohm)
		Main, Spot, S-Video, VGA
	Compression	MPEG4
	Display Resolution	720x480
	Display Speed	120IPS
	Display Modes	Single, Quad, Auto Seguence
Compression Rate	Low	2.4KB (352x240, 6.3KB (720x240)
	Standard	3.9KB (352x240), 10KB (720x240)
	High	5KB (352x240), 13.2KB (720x240)
	Very High	6.7KB (352x240), 17.2KB (720x240)
Audio	Compression	ADPCM
Audio	Input	4 Channel, -5dBm
	Output	1 Channel, -6dBm
	Signal/Noise	Above 40db
Recording Modes		Manual, Schedule, Event (Alarm, Motion, Video Loss, Pre & Post)
	Speeds	NTSC: 1ips/3ips/5ips/7.5ips/10ips/15ips/30ips
	Resolution Speed	CIF © 30ips max. (352x240)
		Half D1 (N) 15ips max. (720x288)
Search	Methods	Event/Time & Date/First/Last/Backup
Controls		Mode/Play/Rec/Stop/Still/Fast Fwd/
		Rewind/PTZ/Menu/Audio
		Alarm/Search/CDRW Eject (SHR-2042 only)
Special Features		Motion Detection (Area & Sensitivity selectable),
		PIP, PTZ Control & 20 Presets, Digital Zoom x2,
		DST, Password Protected
Connector Rear	Video	4 BNC Input/Outputs (Composite), VGA, S-Video
	VIACO	BNC Main, BNC Spot
	Audio	4 RCA Input/1 RCA Output
	Alarm	In/Out/Reset/Gnd
	Communication	
		RS-485, RS-232
	Network	RJ-45
	USB 2.0	One
Network	Ethernet	10/100 Base T, ADSL (PPPoE), DHCP, DDNS
Backup	USB	External HDD, CD/DVD Writer, Flash Memory
		Internal CD-RW (SHR-2042)
Alarm	Input	4, 5mA
	Output	2, Relay Output
	Reset	1, 5mÅ
OSD		Yes
Remote Viewer	OS	Win98se, WinME, Win2000, WinXP
Operating Temperature		41° ~ 104° F (0° ~ 40° C)
Operating Humidity		20 ~ 85% RH
Power	Power Source	110-220 VAC, 12VDC (SHR-2040)
	Power Consumption	51W (SHR-2042) / (30W for SHR-2040)
Physical Specifications	Dimension (W x H x D)	16.93" x 3.46" x 15.75" / 430 x 88 x 400mm (SHR-2042)
		8.46" x 3.46" x 13.27" / 215 x 88 x 337mm (SHR-2042)
	Wolaht	
0	Weight	16lbs./7.3Kg (SHR-2042) / 7.39lbs. / 3.35Kg (SHR-2040)
Certifications	UL, FCC, IC	

Dimensions SHR-2040 (unit : mm)





SHR-2080 / SHR-2082 8-Channel Standalone Digital Video Recorder



The SHR-2080/SHR-2082 is an 8 channel Improved MPEG-4 Digital Video Recorder capable of recording 120ips in CIF mode. The SHR-2080/SHR-2082 operates in Triplex mode (monitoring/playback/recording) and can also record synchronized audio on 4 channels at selectable resolutions CIF & Half D1. Minimum file size is 3Kbyte @ CIF: 352x240, 5.4Kbyte @ Half D1: 720x240. Each channel can independently record at variable rates helping reduce HDD storage.

The SHR-2080/SHR-2082 includes built-in front USB 2.0 slot for expanded external storage. The USB 2.0 slot can be used for internal HDD expansion or external Back Up storage. It can also be used with a memory stick adding speed and convenience to video clip downloads.



SHR-2080 / SHR-2082 8-Channel Standalone Digital Video Recorder

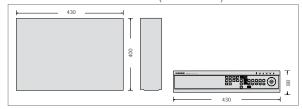
Features

- Eight Channel DVR
 Triplex Operation (Monitoring/Playback/Recording)
- Resolution: CIF, Half D1 • Improved MPEG-4 (Compression)
- (Min. File Size 3K)
- Recording Rate: Max. 120ips (CIF)
- Built In CD-RW, USB 2.0
- · Back Up: USB HDD, CD-RW, Memory
- Audio Recording: 4 IN/1 OUT
- Motion Detection
- PTZ Control
- Loop Through Video
- Ethernet 10/100 Base T
- DDNS Support (Multiple Options)
- Audio Through Internet Supported
- Available Without CD-RW as SHR-2080
- Remote Controller

Accessories Additional hard drives

GV-160GBHD, 160GB Fixed Hard Drive GV-250GBHD, 250GB Fixed Hard Drive GV-500GBHD, 500GB Fixed Hard Drive

Dimensions (unit : mm)



SHR-2080 / SHR-2082

DVR Type		8 Channel Video Input
perating System		Embedded OS
torage	Internal	250GB
	Internal capacity	500GB x 3 (SHR-2082)
	internal oupdoing	500GB x 4 (SHR-2080)
	External	USB HDD 250GB (optional)
ideo	Input	8 Channel, (1Vp-p unbalanced, 75 ohm)
laco	Output	8 Channel, (1Vp-p unbalanced, 75 ohm)
	Oulpui	Main, Spot, S-Video, VGA
	Compression	MPEG4
	Display Resolution	720x480
	Display Resolution Display Speed	240IPS
	Display Modes	Single, Quad, 6,7,8,9, Auto Sequence
ompression Rate	Low	3KB (352x240, 5.4KB (720x240)
	Standard	4KB (352x240), 8.5KB (720x240)
	High	6.4KB (352x240), 11.25KB (720x240)
	Very High	8.5KB (352x240), 14.6KB (720x240)
udio	Compression	ADPCM
	Input	4 Channel, -5dBm
	Output	1 Channel, -6dBm
	Signal/Noise	Above 40db
ecording Modes	<u>-</u>	Manual, Schedule, Event (Alarm, Motion,
obordaning modelo		Video Loss, Pre & Post)
	Speeds	NTSC: .9ips/1.9ips/3.8ips/7.5ips/15ips/30ips
	Resolution Speed	CIF © 30ips max. (352x240)
	Resolution Speed	
aarab	Mathada	Half D1 (N) 15ips max. (720x288)
earch	Methods	Event/Time & Date/First/Last/Backup
Controls		Mode/Play/Rec/Stop/Still/Fast Fwd/
		Rewind/PTZ/Menu/Audio
		Alarm/Search/CDRW Eject (SHR-2082 only)
pecial Features		Motion Detection (Area & Sensitivity selectable),
		PIP, PTZ Control & 20 Presets, Digital Zoom x2, DST,
		Password Protected, Infrared Remote Control
Connector Rear	Video	8 BNC Input/Outputs (Composite), VGA, S-Video
		BNC Main, BNC Spot
	Audio	4 RCA Input/1 RCA Output
	Alarm	In/Out/Reset/Gnd
	Communication	RS-485, RS-232
	Network	RJ-45
	USB 2.0	One
atuad		
etwork	Ethernet	10/100 Base T, ADSL (PPPoE), DHCP, DDNS
ackup	USB	External HDD, CD/DVD Writer, Flash Memory
		Internal CDRW (only in SHR-2082)
larm	Input	8, 5mA
	Output	4, Relay Output
	Reset	1, 5mA
SD		Yes
emote Viewer	OS	Win98se, WinME, Win2000, WinXP
perating Temperature		41° ~ 104° F (0° ~ 40° C)
perating Humidity		20 ~ 85% RH
ower	Power Source	110-220 VAC
	Power Consumption	56W (SHR-2080) / 60W (SHR-2082)
hysical Specifications	Dimension (W x H x D)	16.93" x 3.46" x 15.75" (430 x 88 x 400mm)
hysical Specifications		
N	Weight	14.33lbs./6.5Kg (SHR-2080) / 16.1lb / 7.3Kg (SHR-2082)
Certifications	UL, FCC, IC	



SHR-2160 / SHR-2162 16-Channel Standalone Digital Video Recorder



The SHR-2160/SHR-2162 includes built-in front USB 2.0 & CD-RW for expanded external storage. The USB 2.0 slot can be used for internal HDD expansion or external Back Up storage. It can also be used with a memory stick adding speed and convenience to video clip downloads.





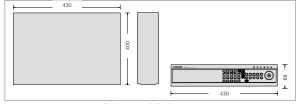
Features

- Sixteen Channel DVR
- Triplex Operation (Monitoring/Playback/Recording)
- Resolution: CIF, Half D1
- Improved MPEG-4 (Compression)
- (Min. File Size 3.75K) Recording Rate: Max. 120ips (CIF)
- Built In CD-RW, USB 2.0
- Back Up: USB HDD, CD-RW, Memory
- Audio Recording: 4 IN/1 OUT
- Motion Detection
- PTZ Control
- Loop Through Video
- Ethernet 10/100 Base T
- DDNS Support (Multiple Options)
- Audio Through Internet Supported
- Available Without CD-RW as SHR-2160
- Remote Controller

Accessories Additional hard drives

GV-160GBHD, 160GB Fixed Hard Drive GV-250GBHD, 250GB Fixed Hard Drive GV-500GBHD, 500GB Fixed Hard Drive

Dimensions (unit : mm)



SHR-2160 / SHR-2162

DVR Type		16 Channel Video Input
Operating System		Embedded OS
Storage	Internal	250GB
storago	Internal capacity	500GB x 3 (SHR-2162)
	internal opport	500GB x 4 (SHR-2160)
	External	USB HDD 250GB (optional)
/ideo	Input	16 Channel, (1Vp-p unbalanced, 75 ohm)
nueo	Output	16 Channel, (1Vp-p unbalanced, 75 ohm)
	Oulpui	Main, Spot, S-Video, VGA
	Compression	MPEG4
		720x480
	Display Resolution	
	Display Speed	480IPS
	Display Modes	Single, Quad, 6,7,8,9,16, Auto Sequence
Compression Rate	Low	3.75KB (352x240, 6.5KB (720x240)
	Standard	6KB (352x240), 10.25KB (720x240)
	High	7.6KB (352x240), 13.5KB (720x240)
	Very High	10.25KB (352x240), 17.6KB (720x240)
Audio	Compression	ADPCM
	Input	4 Channel, -5dBm
	Output	1 Channel, -6dBm
	Signal/Noise	Above 40db
Recording Modes	3	Manual, Schedule, Event (Alarm, Motion,
		Video Loss, Pre & Post)
	Speeds	NTSC: .9ips/1.9ips/3.8ips/7.5ips/15ips/30ips
	Resolution Speed	CIF © 30ips max. (352x240)
	Resolution opecu	Half D1 (N) 15ips max. (720x288)
Search	Methods	Event/Time & Date/
Sedicii	Methous	First/Last/Backup
Controls		Mode/Play/Rec/Stop/Still/Fast Fwd/
Controls		
Care sist Freetower		Rewind/PTZ/Menu/Audio / Alarm/Search
Special Features		Motion Detection (Area & Sensitivity selectable),
		PIP, PTZ Control & 20 Presets, Digital Zoom x2,
		DST, Password Protected, Infrared Remote Control
Connector Rear	Video	16 BNC Input/Outputs (Composite), VGA, S-Video
		BNC Main, BNC Spot
	Audio	4 RCA Input/1 RCA Output
	Alarm	In/Out/Reset/Gnd
	Communication	RS-485, RS-232
	Network	RJ-45
	USB 2.0	One
Network	Ethernet	10/100 Base T, ADSL (PPPoE), DHCP, DDNS
Backup	USB	External HDD, CD/DVD Writer, Flash Memory
		Internal CD-RW (SHR-2162)
Alarm	Input	16, 5mA
- Marini	Output	4, Relay Output
	Reset	1, 5mA
OSD	1/2321	Yes
Remote Viewer	OS	Win98se, WinME, Win2000, WinXP
	00	
Operating Temperature		41° ~ 104° F (0° ~ 40° C)
Operating Humidity	Device Course	20 ~ 85% RH
Power	Power Source	110-220 VAC
	Power Consumption	56W (SHR-2160) / 60W (SHR-2162)
Physical Specifications	Dimension (W x H x D)	16.93" x 3.46"x 15.75" (430 x 88 x 400mm)
	Weight	14.3lb / 6.4Kg (SHR-2160) / 16.1lb / 7.3Kg (SHR-2162)
Certifications	UL, FCC, IC	

Digital Video Security System Technology
DIGITAL VIDEO RECORDERS



SHR-4081 Real Time 8 Ch Standalone Digital Video Recorder



SHR-4081 is an 8-channel MPEG-4 real time Digital Video Recorder capable of 240ips recording rate in CIF mode. It can also record 8 channels of synchronized audio and various kinds of resolutions in different modes, such as CIF: 352x240, Half D1: 720x240 and Full D1: 720x480.

Each channel can be individually adjusted at a variable record rate which will help save HDD storage. Available external interface methods are USB 2.0(Front: 1, Rear: 1) and IEEE1394.



SHR-4081 Real Time 8 Ch Standalone Digital Video Recorder

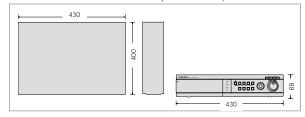
- Features Eight Channel DVR Triplex Operation (Monitoring/Playback/Recording) Resolution: CIF, Half D1, Full D1 Improved MPEG-4 (Compression)

- (Min. File Size 3.3K) Recording Rate: Max. 240ips (CIF)
- Built In, USB 2.0 & IEEE-1394 interface
- Back Up: USB HDD, IEEE-1394, Memory
- Audio Recording: 8 IN/1 OUT
- Motion Detection
 PTZ Control
- Loop Through Video
- Ethernet 10/100 Base T
- * Unit can record 720x480 in 1 Ch mode

Accessories Additional hard drives

GV-160GBHD, 160GB Fixed Hard Drive GV-250GBHD, 250GB Fixed Hard Drive

Dimensions (unit : mm)



DVR Type		8 Channel Video Input
Operating System		Embedded OS
Storage	Internal	250GB
Noruge	Internal capacity	250GB x 4, PATA
	External	HDD 250GB (optional)
	External	IEEE-1394 250GB x 6 Max. (optional)
lidaa	lanut	IEEE-1394 200GD X 0 WidX. (Uptional)
/ideo	Input	8 Channel, (1Vp-p Unbalanced, 75 ohm)
	Output	8 Channel, (1Vp-p Unbalanced, 75 ohm)
		Main, Spot, S-Video, VGA
	Compression	MPEG4
	Display Resolution	720x480
	Display Speed	240IPS
	Display Modes	Single, Quad, 6,7,8,9, Auto Sequence, PIP, 2X Zoom
Compression Rate	Low	3.3KB (352x240), 4.3KB (720x240),
		9.KB (720x480) Min. rate
	Standard	4.1KB (352x240), 5.7KB (720x240),
	Standard	11.4KB (720x480) Min. rate
	Lliab	4.9KB (352x240), 6.9KB (720x240),
	High	
		13.8KB (720x480) Min. rate
	Very High	6.1KB (352x240), 8.1KB (720x240),
		16.3KB (720x480) Min. rate
Audio	Compression	G.726
	Input	8 Channel, Mono, -5db, 600 ohms
	Output	1 Channel, Mono, -6db
	Signal/Noise	Above 40db
Recording Modes		Manual, Panic, Schedule, Event (Alarm, Motion,
		Video Loss, Pre & Post), Panic
	Speeds	NTSC: 1ips/3ips/5ips/7.5ips/10ips/15ips/30ips
	Resolution Speed	CIF © 30ips max. (352x240)
	Resolution Speed	
		Half D1 (N) 15ips max. (720x240)
		Full D1 7.5ips max (720x480)
Search	Methods	Event/Time & Date/Panic/First/Last/Backup
Controls		Jog/Shuttle/Mode/Play/Rec/Panic/Stop/
		Still/Fast Fwd/Rewind/PTZ/Menu/Audio
		Alarm/Search
Special Features		Motion Detection (Area & Sensitivity selectable),
		PIP, PTZ Control & 20 Presets, Digital Zoom x2,
		DST, Password Protected
Connector Rear	Video	8 BNC Input/Outputs (Composite), VGA, S-Video
JUINECIUI Redi	VILLEO	
	A !! -	BNC Main, BNC Spot
	Audio	8 RCA Input/1 RCA Output
	Alarm	In/Out/Reset/Gnd
	Communication	RS-485, RS-232
	Network	RJ-45
	USB 2.0	One
	IEEE-1394	One
letwork	Ethernet	10/100 Base T, ADSL (PPPoE), DHCP
ackup	USB	CD/DVD Writer, Flash Memory
ucitup	IEEE-1394	HDD (6 Max.)
lorm		
larm	Input	8, 5mA
	Output	4, Relay Output
	Reset	1, 5mA
SD		Yes
emote Viewer	OS	Win98se, WinME, Win2000, WinXP
perating Temperature		41° ~ 104° F (0° ~ 40° C)
perating Humidity		20 ~ 85% RH
ower Source		120 VAC
Power Consumption		85W
	Dimension (My LLy D)	
Physical Specifications	Dimension (W x H x D)	16.93" x 3.46" x 15.75" (430 x 88 x 400mm)
	Weight	15.65lbs./7.1Kg
Certifications	UL, FCC, IC	



SHR-4160 16 Channel Standalone Digital Video Recorder



SHR-4160 is a 16-channel MPEG-4 real time Digital Video Recorder capable of 360ips recording rate in CIF mode. It can also record 8 channels of synchronized audio and various kinds of resolutions in different modes, such as CIF: 352x240, Half D1: 720x240 and Full D1: 720x480.

Each channel can be individually adjusted at a variable record rate which will help save HDD storage. Available external interface methods are USB 2.0(Front:1, Rear:1) and IEEE1394.

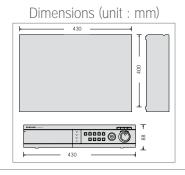


SHR-4160 16 Channel Standalone Digital Video Recorder

Features Sixteen Channel DVR

- Triplex Operation (Monitoring/Playback/Recording)
 Resolution: CIF, Half D1, Full D1
 Improved MPEG-4 (Compression)
- (Min. File Size 3.3K)
- Recording Rate: Max. 360ips (CIF)
- Built In, USB 2.0 & IEEE-1394 Interface
 Back Up: USB HDD, IEEE-1394, Memory
 Audio Recording: 8 IN/1 OUT
- Motion Detection
- PTZ Control
- Loop Through Video
- Ethernet 10/100 Base T
- * Unit can record 720x480 on 1 Ch mode

Accessories ADDITIONAL HARD DRIVES GV-160GBHD, 160GB Fixed Hard Drive GV-250GBHD, 250GB Fixed Hard Drive

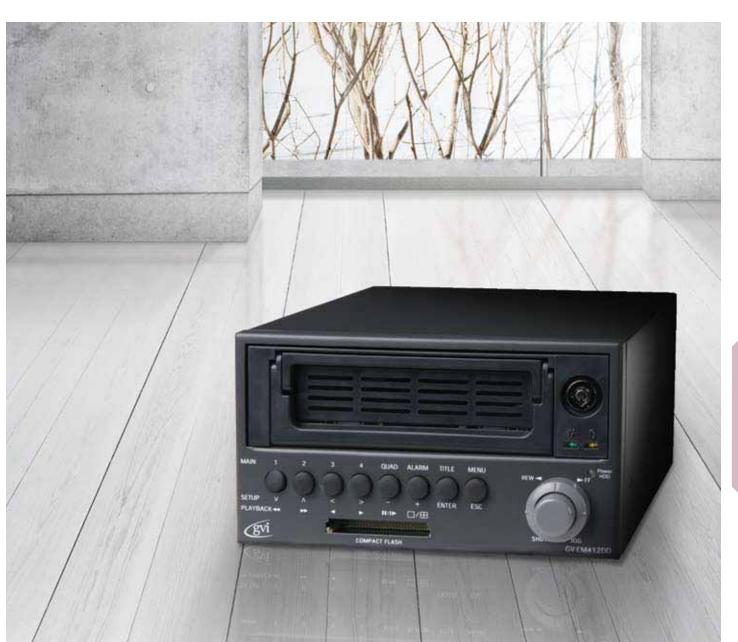


		44 01 11/11 1 1
DVR Type		16 Channel Video Input
Operating System	Embedded OS	Embedded OS
Storage	Internal	250GB
	Internal capacity	250GB x 4, PATA
	External	SCSI HDD 250GB (optional)
		IEEE-1394 250GB x 6 Max. (optional)
Video	Input	16 Channel, (1Vp-p unbalanced, 75 ohm)
	Output	16 Channel, (1Vp-p unbalanced, 75 ohm)
	oulput	Main, Spot, S-Video, VGA
	Compression	MPEG4
		720x480
	Display Resolution	
	Display Speed	480IPS
	Display Modes	Single, Quad, 6,7,8,9, 16, Auto Sequence, PIP, 2X Zoom
Compression Rate	Low	3.3KB (352x240), 4.3KB (720x240),
		9.KB (720x480) Min. rate
	Standard	4.1KB (352x240), 5.7KB (720x240),
		11.4KB (720x480) Min. Rate
	High	4.9KB (352x240), 6.9KB (720x240),
	- ign	13.8KB (720x480) Min. rate
	Very High	6.1KB (352x240), 8.1KB (720x240),
	very riigit	16.3KB (720x480) Min. Rate
A !! -	<u>Community</u>	
Audio	Compression	G.726
Input	8 Channel	Mono -5db, 600 ohms
	Output	1 Channel Mono -6db
	Signal/Noise	Above 40db
Recording Modes		Manual, Panic, Schedule, Event (Alarm, Motion,
0		Video Loss, Pre & Post), Panic
	Speeds	NTSC: 1ips/3ips/5ips/7.5ips/10ips/15ips/30ips
	Resolution Speed	CIF © 30ips max. (352x240)
	Resolution Speed	Half D1 (N) 15ips max. (720x240)
		Full D1 7.5ips max (720x480)
C h	Martin a dia	
Search	Methods	Event/Time & Date/Panic/First/Last/Backup
Controls		Jog/Shuttle/Mode/Play/Rec/Panic/Stop/
		Still/Fast Fwd/Rewind/PTZ/Menu/Audio
		Alarm/Search
Special Features		Motion Detection (Area & Sensitivity selectable),
		PIP, PTZ Control & 20 Presets, Digital Zoom x2,
		DST, Password Protected
Connector Rear	Video	16 BNC Input/Outputs (Composite), VGA,
		S-Video BNC Main, BNC Spot
	Audio	8 RCA Input/1 RCA Output
	Alarm	In/Out/Reset/Gnd
	Communication	RS-485, RS-232
	Network	RJ-45
	USB 2.0	One
	IEEE-1394	One
Network	Ethernet	10/100 Base T, ADSL (PPPoE), DHCP
Backup	USB	External HDD, CD/DVD Writer, Flash Memory
	IEEE-1394	HDD (6 Max.)
Alarm		Input 8, 5mA
	Output	4, Relay Output
	Reset	1, 5mA
OSD	1/6361	Yes
	20	
Remote Viewer	OS	Win98se, WinME, Win2000, WinXP
Operating Temperature		41° ~ 104° F (0° ~ 40° C)
Operating Humidity		20 ~ 85% RH
Power Source		120 VAC
Power Consumption		85W
Physical Specifications	Dimension (W x H x D)	16.93" x 3.46" x 15.75"
	,	430 x 88 x 400mm
	Weight	15.65lbs./7.1Kg
Certifications	UL, FCC, IC	10.00103/17.11Cg
VELUCATIONS	UL. LGG. IG	

GV-EM130DD / GV-EM412DD DIGITAL VIDEO F 1 Ch and 4 Ch Digital Video Recorders with Removable Hard Drive

DIGITAL VIDEO RECORDERS





The GV-EM130DD (1 Channel) and GV-EM412DD (4 Channel) are cost effective DVRs that record on a removable hard-disk drive and are equipped with a compact flash memory slot. With optional accessories, the GV-EM Series can also be used as a mobile DVR with a separate control panel for remote monitoring and control. LAN connectivity is standard in the GV-EM series and it also features smooth motion and clear playback.

The units come bundled with DVR reader software that allows you to view DVR video on a PC. Taking out the removable hard-drive and placing it in a PC that contains a compatible removable hard-drive bay* (*removable hard-drive bay is optional), will allow playback of video using the DVR reader software.

The DVR reader software also saves images in AVI, MPEG, or BMP file formats. The "Heart-Beat" rebooting feature makes the unit rock solid reliable in the event of recovering after a system halt.



GV-EM130DD / GV-EM412DD 1 Ch and 4 Ch Digital Video Recorders with Removable Hard Drive

Features

- 4/1 Channels
- Simplex Operation
- · Record Quality: Low, Standard, High, Very High • Min. File Size: 5kb
- 120 fps Max Recording Rate: 30 fps: GV-EM130DD
- Removable HD
- · Compact Flash Slot
- Audio Recording: 1 in / 1 out
- Motion Detection
- Ethernet 10/100 base T

Accessories Additional hard drives

GV-160GB, 160GB Fixed Hard Drive GV-250GB, 250GB Fixed Hard Drive GV-500GB, 500GB Fixed Hard Drive



• GV-EM130DD is also available in 4 Channel and with 120ips recording speed at 360 x 240 as GV-EM412M. This unit comes pre-installed in GV-EM412CASE • All DVRs in this series are also available with 80Gb Hard Drive as GV-EM130DD-80, GV-EM412DD-80, GV-EM412M-80

DVR Type	GV-EM412DD: 4 Ch Video	GV-EM130DD: 1 Ch Video
Operating System	Embedded OS	Embedded OS
Storage: Internal	160Gb	160Gb
Storage: Internal Capacity	750Gb	750Gb
Storage: External	Compact Flash Slot	Compact Flash Slot
Video Input	4	1
Video Output	Main, S-Video	Main, S-Video
Video Display Modes	Single, Quad, Sequential	Single
Compression Rate	Low 5-10Kb, Standard 10-15Kb	Low 5-10Kb, Standard 10-15Kb
	High 15-20Kb, Very High 20-24Kb	High 15-20Kb, Very High 20-24Kb
Audio Input	1	1
Audio Output	1	1
Recording Modes	Schedule, Continuous, Alarm	Schedule, Continuous, Alarm
	Post Alarm	Post Alarm
Recording Speeds	1-8, 16, 30	1-8, 16, 30
Recording Resolution	720x480, 360x240	720x480, 360x240
Search	Jog Shuttle - Backward/Forward	Jog Shuttle - Backward/Forward
	x2, x4, x16, x32, x256, x1024,	x2, x4, x16, x32, x256, x1024,
	x8192, frame	x8192. frame
Special Features	Motion Detection + Sensitivity	Motion Detection + Sensitivity
	Heartbeat, POS,	Heartbeat, POS,
	Image Difference Store Method	Image Difference Store Method
Connector: Rear	4 BNC Inputs, S-Video	1 BNC Input, S-Video
Connector: Video	Monitor out-BNC	Monitor out-BNC
Connector: Audio	1 RCA Input/1 RCA Output	1 RCA Input/1 RCA Output
Connector: Alarm	Input/Relay	Input/Relay
Connector: Communication	RS-232	RS-232
Connector: Network	RJ-45	RJ-45
Network	10/100 Base T	10/100 Base T
Homon	DHCP, Static, DDNS	DHCP, Static, DDNS
Backup	Compact Flash	Compact Flash
Alarm Input	4	4
Alarm Output	1, Relay	1, Relay
OSD	Yes	Yes
Remote Viewer	Yes	Yes
Operating Temp.	32° ~ 104° F (HD dependent) / 0°C – 40°C.	32° ~ 104° F (HD dependent) / (0°C – 40°C)
Operating Humidity	85% Max	85% Max
Power Source	12 Vdc, 4.5 Amps	12 Vdc, 4.5 Amps
Controls	Camera 1-4, Quad, Alarm, Menu	REC, Reverse, Pause, Play
	PWR, Jog shuttle, Playback,	Alarm, OSD, PWR, Menu
	Rewind, FWD, F-FWD, Escape, Enter	Jog Shuttle
Physical Specificaton	6.3" x 9.8" x 3.5" (WxDxH)	6.3" x 9.8" x 3.5" (WxDxH)
	7.1lb	7.3lb
Weight	7. IIU	uic. 1







The SRV-960A is a real time and time lapse videocassette recorder that can record color or monochrome video signals. Featuring multiple recording and playback methods, this VCR can be programmed to record in multiple modes, dates and times.

The multiple recording densities allow a high video capture rate, more than what is found in a standard time lapse recorder. With up to 30 hour audio recording, alarm recording, power loss memory and record check, this recorder serves as the basis for recording and used in most small surveillance systems.

Additional features include a built-in time/date generator, repeat recording, one shot recording and jog shuttle control. The SRV-960A delivers 300 lines of resolution in color and over 350 lines of resolution in monochrome recording.



SRV-960A Real Time Recorder

Features

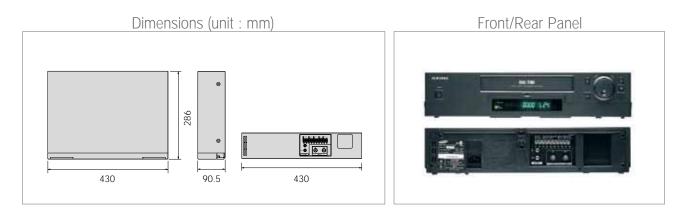
- Real/Time Lapse VCR
- Recording Speeds: 6/18/30/72/120/168/240/480/960Hrs
 Color 300/BW 350 TV Lines Resolution
- Three Audio Recording Modes
- Jog/Shuttle Dial
- Built-In Time/Date Generator
- Super Clear and Natural Picture
- Timer Program Recording (Ten)
- · Repeat, One Shot, Series and Alarm recording
- Power Loss Memory Function
- Record Check Function
- (OSD) On Screen Display

Accessories GV-FR1819, VCR LOCK BOX

This tamper proof, lightweight, all aluminium VCR box has a hinged front door and a removable rear panel for easy installation. The enclosure is key locked. This lock box can accommodate most popular VCR and multiplexer combination. The vented side panels mean that, in most cases a blower unit is not required.

Body: All aluminum, gauge 12, alloy # 3105H14 Cover: Hinged, key locked / Finish: Black polyurethane coating / Weight: 11lb (5kg) Dimensions: (HxWxD) 6.0" x 18.50" x 17.0" / 152 x 470 x 432mm





Picture	Resolution	300 Color/350 BW TV lines
Video	Recording Method	Rotation Head Azimuth Type
	REC/PB Speeds	6H/18H/30H/72H/120H/168H/240H/
		480H/960H/000H
Input		1 Channel, (1Vp-p unbalanced, 75 ohm)
•	Output	1 Channel, (1Vp-p unbalanced, 75 ohm)
	Signal/Noise	Above 43db
Audio	Recording Mode	L6, L18, L30H
	Input	1 Channel, -8db
	Output	1 Channel, -8db
	Signal/Noise	Above 40db
Tape Speed	3	11.12mm/sec (L6Hr Mode)
Таре	Front	Loading
	Applicable Video Tapes	T-30, T-60, T-90, T-120, T-160
Recording System		Manual/Program/Alarm/Series REC/
		Repeat REC/1-Shot
System	Modes	NTSC
Controls	Jog/Shuttle	
	5	Playback/Rec/Stop/Eject
		Slow/Still/Fast Rewind & Forwarding
		Fwd/Rev Search
Connector Rear	Video	2 BNC Input/Outputs (Composite),
	Audio	2 RCA Input/Outputs
	Alarm	In/Out/Reset/Gnd
	Series	In/Out/Gnd
	Tape End	Out
	Trigger	Out
Operating Temperature		41° ~ 104° F (5° ~ 40° C)
Operating Humidity		Below 80%
Power Source		120VAC, 60Hz
Power Consumption		16W
Physical Specifications	Dimension (W x H x D)	16.93" x 3.56" x 12.26" (430 x 90.5 x 311.5mm)
	Weight	9.48lbs./4.3Kg
Certifications	UL, FCC, IC	•