

# 960H Real-time Compact DVR

## SRD-445

### 4CH 960H Real-time Compact Design Coaxial DVR

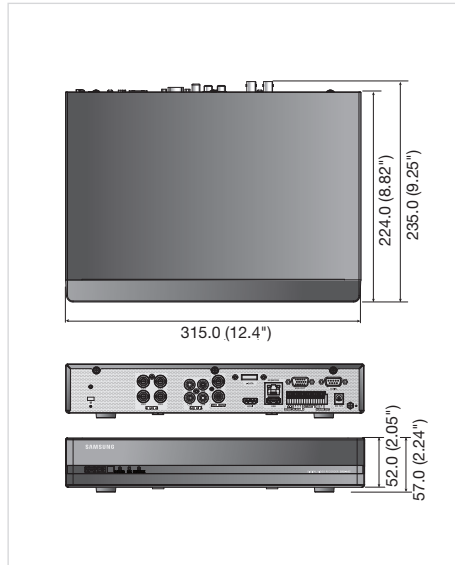
- 4CH 960H Real-time DVR
  - Up to 120(N) / 100(P)fps recording rate
- Easy user interface, common across all Samsung DVRs
  - GUI / Search / Back up / Set-up
- Convenient with strong network monitoring
  - CMS (SSM, SmartViewer, Net-I), Web viewer, Smart phones (iPOLiS mobile)
- VGA / HDMI for Full-HD(1080p) resolution video out
- Max. 1 internal HDD
- Compact design 315 x 52 x 224mm





## Dimensions

Unit : mm (inch)



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DISPLAY		
Video	Inputs	4 composite video 0.5-1 Vpp, 75 ohm
	Resolution	NTSC : 960 x 480, 720 x 480 / PAL : 960 x 576, 720 x 576
	Frame Rate	NTSC : 120fps / PAL : 100fps
Live	Resolution	NTSC : 960 x 480, 720 x 480 / PAL : 960 x 576, 720 x 576
	Multi Screen Display	1 / 4 / Sequence / PIP
PERFORMANCE		
Operating System	Embedded	Linux
	Compression	H.264
Recording	Record Rate	NTSC : Up to 120fps@960 x 480 / PAL : Up to 100fps@960 x 576 NTSC : Up to 120fps@704 x 480 / PAL : Up to 100fps@704 x 576 NTSC : Up to 120fps@704 x 240 / PAL : Up to 100fps@704 x 288 NTSC : Up to 120fps@352 x 240 / PAL : Up to 100fps@352 x 288
	Mode	NTSC : Manual, Schedule (Continuous / Event), Event (Pre / Post) PAL : Manual, Schedule (Continuous / Event), Event (Pre / Post)
	Event	Video loss, Motion (Level 1 ~ 10), Alarm
	Overwrite Modes	Selectable (Stop / Continuous)
	Pre-alarm	Up to 5sec
	Post-alarm	Up to 6hour (5,10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)
Search & Playback	Search Mode	Date/Time, Event (Alarm / Motion), Back up, POS (*All search include preview function)
	Playback Function	Fast forward / backward (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with i-frame only Slow forward / backward (1/2x, 1/4x, 1/8x)
Network	Transmission Speed	CIF (NTSC : 120fps, PAL : 100fps)
	Bandwidth	Up to 8Mbps, Unlimited 2 / 1.5 / 1Mbps / 800 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps
	Bandwidth Control	Automatic
	Stream	H.264 (CIF)
	Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20
	Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP
Smart Phone	Monitoring	Webviewer, CMS (SmartViewer, Net-I)
	Platform	Android, iOS
	Protocol Support	RTP, RTSP, HTTP, CGI
Storage	Max. Remote Users	Live 1
	Internal HDD	Up to 1 SATA HDD
	USB (Back up)	2 USB ports
Security	File Format (Back up)	BU (DVR player), EXE (Include player), AVI
	Password Protection	1 Admin, 10 Group, 10 User per 1 group
	Data Authentication	Watermark
INTERFACE		
Monitors	VGA	1 VGA (1280 x 720, 1280 x 1024, 1920 x 1080)
	HDMI	1 HDMI (1280 x 720, 1280 x 1024, 1920 x 1080)
	Spot Composite	Digital spot (1CH) *Included OSD on screen, multi mode support
Audio	Inputs / Output	4CH line in / 1CH line out
	Compression	G.711
	Sampling Rate	8KHz
Alarm	Inputs / Output	Terminal 4 inputs (NO/NC) / Terminal 2 relay outputs (NO), Rating : 24V DC / 1A, 125V AC / 0.5A
	Remote Notification	Notification via e-mail
	Ethernet	1 RJ-45 10/100 Base-T
Connections	Serial Interface	RS-485 (Half) for PTZ, System keyboard, RS-232 support for POS interface (VSI-pro)
	USB	USB 2.0, 2 ports (Front / Rear)
	Application Support	Mouse, Remote controller
	RS-485 Protocol	Samsung-T/E, Pelco-D/P, Panasonic, Phillips, AD, DIAMOND, ERNA, KALATEL, VCL TP, VICON, ELMO
	Coax Protocol	Samsung CCVC, Pelco-C
GENERAL		
Electrical	Input Voltage / Current	12V DC adaptor, 3A, 100 ~ 250V AC, 50/60Hz, 36watt
	Power Consumption	Max. 19W (With 1x HDD)
Environmental	Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
	Operating Humidity	20% ~ 85% RH
Mechanical	Dimensions (WxHxD)	315.0 x 52.0 x 224.0mm (12.4" x 2.05" x 8.82")
	Weight (With hard disks)	Approx. 1.7Kg (3.75 lb)
Language	English, French, German, Croatian, Italian, Russian, Polish, Czech, Turkish, Dutch, Portuguese, Swedish, Danish, Rumania, Serbia, Poland, Hungary, Greek, Finnish, Norwegian, Korean, Japanese, Chinese (Traditional), Thailand, Taiwanese (25 Language)	



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