

960 Hour High Density S-VHS Video Cassette Recorder

The ADEMCO Video AVR960SV High Density VCR features virtual realtime recording and S-VHS processing for impressive, smooth playback of images. Its high resolution of 400 TVL from expanded 7MHZ bandwidth insures pictures are clear and sharp, free from color, bleed, or smear. The AVR960SV is an ideal recorder for larger installations such as retail establishments and large industrial facilities.

The AVR960SV features 13 modes of recording with a maximum record time of 960 hours. A highly flexible VCR, the AVR960SV offers 6 recording/playback modes to accommodate the vast majority of security applications—from 960 hour mode for monthly recording or 72 hour mode for weekend recording. An RS232 input provides the user with remote control of VCR functions, as well as the ability to check the VCRs status from external systems.

Commercial VCRs operate 24 hours a day, 365 days a year. The innovative design of the AVR960SV's capstan bearings and drum motors provides for the highest reliability, while reducing service downtime and maintenance costs. It's crystal ferrite and glass bonded video heads reduce image degradation, assuring optimal image quality. These features are essential for applications that require precise image inspection.

Alarm alerts may be programmed to be displayed on both the VCR's monitor output and the VCRs front panel display, in addition to having an audio output. User-friendly on screen menus allow for simplified setup of features and parameters such as advanced time and date search, time recording and alarm recording. Additional features include field-by-field tape analysis, multiple playback speeds and alarm index indication.

With its superior design, advanced range of features, and sleek look, the AVR960SV is more than a video recorder; it becomes an integral part of your total security system.



AVR960SV

FEATURES:

- Up to 960-hours time-lapse recording
- S-VHS processing
- RS232 input for remote control
- On screen programming
- Automatic head cleaning
- Time and date search
- Alarm index search
- 7 programmable timer settings
- Programmable alarm speed recording (3)
- High speed search
- Video loss detection alarm
- Electronic security lockout feature
- Battery back up
- Automatic video check
- Tape rewind speed app. 150 seconds (T-120)
- Auto recycle
- Auto rewind
- Linear time counter

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ADDITIONAL FEATURES

RS232 Input

The AVR960SV features an RS232 input for external system control so that the user can control most functions of the VCR and check its status from a remote location.

400 Lines Resolution from S-VHS Tapes

The AVR960SV features separate Y/C processing for superior picture quality. You are assured exceptionally high resolution when using S-VHS tapes through expanded 7MHz bandwidth. Pictures are crisp and clear, free from color-bleed or smear, allowing the user to monitor events in fine detail.

Mode Selectable Timer

Up to seven different programs can be preset allowing 2 programs per day to be scheduled.

3 Audio Recording/Playback Modes

With the flexibility of three recording and playback modes the user can select what suits their application. One T-120 tape can record up to 40 days or a maximum of 960 hours. In 6, 18A and 30A hour modes (A=Audio), the VCR will record and playback both audio and video.

Forward/Reverse Playback Modes & Noiseless Field Advance/Field Reverse

Forward Playback can be performed in all 13 modes and Reverse Playback in ten modes to assure clear, precise images when checking an object on the tape. Noiseless Field Advance and Field Reverse playback can be obtained at search speeds 3x, 5x, 7x or 9 times the 6 hour mode (60 fields/sec.).

Recording Review /Auto Review Function

Simply press the play button during recording to check for proper recording. Auto RE-Check rewinds at the end of the tape during recording and plays back a few seconds checking for normal recording.

Video Loss Detection Alarm

If the VCR does not detect a video signal during recording, the monitor displays "No Video".

Convenient On-Screen Display (OSD)

The monitor will display on the VCR's monitor output and VCR display, all information that has been programmed such as, recording date and time, video mode selection, alarm activation and memory. Search speeds can easily be selected through the on-screen display. (See screen displays on right)

Auto Head Cleaning

The VCR cleans the video heads automatically when a cassette is inserted and ejected or when the tape is rewound in the recycle recording mode, to prevent accumulation of dirt on the heads.

TECHNICAL SPECIFICATIONS

ORDERING:

Part No.	Description
AVR960SV	960 Hour S-VHS High Density Time Lapse Video Cassette Recorder

L/AVR960SV/D 3/02

Operational

Tape format	VHS or S-VHS (T-120 or T-160)
Standard	NTSC/ EIA
Recording	Rotary two head helical azimuth recording
Heads	Double-azimuth 4 heads
Recording Length	6, 18, 30, 48, 72, 120, 168, 240, 360, 480, 600, 720, 960 hours
Search Speed	6-hour mode x3, x5, x7, x9
Day Light Savings	Yes
Video	
Input	BNC, 1Vp-p 75 ohm unbalanced
Output	BNC, 1Vp-p 75 ohm unbalanced
S/N	>42db (6 hr mode)
High Resolution	
Color	400 lines (06 mode) S-VHS
Monochrome	400 lines (06 mode) S-VHS
Audio:	
Input:	-8dBm 50k unbalanced
Output	-9dBm 600 ohm unbalanced
Frequency Range	100Hz-8kHz (6 hr mode)
S/N	40B (6 hr. mode)

Environmental:

Operating Temperature	41°F-104°F (5°C-40°C)
Storage Temperature	-4°F-131°F (-20°C-55°C)
Humidity	10%-75%

Power:

Requirements	120 VAC, 60 Hz ± 10%
Consumption	22 W
Battery Back-up	720 hours

Mechanical:

Dimensions:	3.7"(H) x 17.1" (W) x 14.4" (D) (94mm x 435mm x 366mm)
Weight	11.4 lbs. (5.2kg)
Shipping Weight	17 lbs. (7.7 kg)

Regulatory:

- Emissions:
FCC: Part 15, Subpart B, Class A,
CE: EN55022, EN61000-3-2, EN61000-3-3
CSA: CSA-C22.2 No. 1-1998
- Immunity: CE: EN55024:1998
- Health/Safety: UL: UL2044

Variety of Recording Modes with Audio

REC/PLAY MODE	Actual REPLAY Hrs.		Number of REC. Fields	Tape Drive	Audio Recording
	T-120	T-160			
6	6	8	60 fields/sec	Continuous	Yes
18	18	24	20 fields/sec	Continuous	Yes (A18)
30	30	40	12 fields/sec	Continuous	Yes (A30)
48	48	No Rec	6.67 fields/sec	Intermittent	No
72	72	No Rec	4.61 fields/sec	Intermittent	No
120	120	No Rec	2.86 fields/sec	Intermittent	No
168	168	No Rec	2.07 fields/sec	Intermittent	No
240	240	No Rec	1.33 fields/sec	Intermittent	No
360	360	No Rec	.92 fields/sec	Intermittent	No
480	480	No Rec	.72 fields/sec	Intermittent	No
600	600	No Rec	.55 fields/sec	Intermittent	No
720	720	No Rec	.45 fields/sec	Intermittent	No
960	720	No Rec	.12 fields/sec	Intermittent	No

For Optimal Picture Quality When Using T-160 Tape:

- Recommended Brands: Fuji, Hitachi, Maxwell, TDK
- Recommended Type: Commercial Grade

Convenient On-Screen Display

Date/Time

06-29-01 FRI A00
7:35:06 06

Clock Set

(CLOCK SET)
06-29-01 FRI
(OPTIONS)
OSD TYPE: FULL
TIME ADJUST: SLAVE

Timer Presets

(1) 8:00	→	17:00	12
(2) 12:00	→	22:00	24
(3) 18:00	→	6:00	24
(4) 8:00	→	9:00	03
(5) 8:00	→	12:00	24
(6) 17:00	→	22:00	24
(7) 6:00	→	22:00	00

MON: 1, 6 TUE: 1, 6 WED: 1, 7
THU: 1, 3 FRI: 1, 0 SAT: 5, 2
SUN: 5, 2

Selection Menu

(SELECTION MENU)
REC MODE: NORMAL
SEARCH SPEED: X5
ONE SHOT REC: 6 FIELDS
VIDEO INPUT: COMPOSITE
PLAY MODE: AUTO
TIME DATE CODE: 1
BAUD RATE: 1200BAUD
CAMERA SW: 12

Buzzer Selection

(SELECTION MENU) BUZZER SELECTION
TAPE END: OFF
TROUBLE: OFF
NO VIDEO: OFF
AUTO REC CHECK: OFF
ALARM OUT: OFF

Alarm Set

(ALARM SET)
DURATION: MANUAL
SPEED: 06
ALARM READY: YES
ALARM OUT: DURATION
(RECYCLE FUNCTIONS
REWIND, STOP IF ALARM)

Alarm Memory

(ALARM MEMORY) A05
1 01-12-98 00:44:54
2 01-12-98 00:46:46
3 01-12-98 00:55:32
4 01-12-98 00:57:33
5 16-12-98 13:13:15
6
7
8
9

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