

CDVR80 Series High Resolution Compact Digital Video Recorder



Product Summary

The A-CDVR80 Single Channel Digital Recorder is a true VCR replacement featuring one video/audio input and output. The A-CDVR80 recorder operates in a Real-Time (30-ips) mode offering 48-hours of continuous recording in the high quality mode and up 96-hours in the low quality mode. Operating in the Time-lapse mode the recorder can record over 3.5 months at a record speed of 1-ips.

The A-CDVR80 records all TV video lines from the camera or multiplexer similar to standard VCR recording. A trigger output is available to synchronize the multiplexed video.

When used as an event recorder, the A-CDVR80 features a pre-event memory buffer storing twenty seconds of pre-event video.

The embedded operating system allows for an instant power up cycle of less than six seconds. The small mechanical size allows several recorders to fit in the space of an existing VCR.

Digital Recording

The unit features selectable video quality and frame rates, and automatically calculates the amount of recording time available based on user selections. Linear audio recording is also available in ALL time-lapse modes and is synchronized to the recorded video. Combined with an easy to use jog shuttle for video/audio playback, the recorder features instant search capabilities by time, date, event, or recording session for easy access to video and audio.

Digital Archiving

A front panel Compact Flash socket is available for easy video archiving. The Compact Flash allows storage of video AVI and single JPEG files and requires no special GUI to review the video on a PC or the recorder. Simply press the Record button while in the pause mode to archive single JPEG images. With secure water marking of the archived video, integrity of the archived video is maintained.

When playing back the archived high resolution images, the video images may be displayed as a wide-screen picture on the computer display.

Verifying the admissibility of the archived AVI file is accomplished using the DVR Validator software included with each unit.

Options

An optional Compact Flash Memory card and Reader is available (CDVR-FLASH64), as well as a compact lockbox to ensure a secure installation (A-CDVRLB).



General Features

- High Resolution 640-horizontal pixels
- Compact single channel Digital Video Recorder with 1-channel audio
- Simple easy to use low cost VCR replacement
- User friendly Jog/Shuttle control of video playback for single step, slow motion, and fast play
- Small mechanical packaging
- Compact Flash socket for event archiving
- Compatible with multiplexers
- Multiplexer trigger output
- Alarm input and alarm output
- Date and Time Stamp

Settings

- Selectable record resolutions; High (640-pixels) or Normal (320-pixels)
- Selectable video quality settings; Low, Medium, High
- Selectable image rates; 1-, 2-, 3-, 5-, 7.5-, 10-, 15-, or 30- ips
- Event recording with programmable image rate
- Selectable audio recording
- Password protect and keypad lock out

Storage

- 48-hours of real-time recording at 30 images/second in High Quality, Normal record resolution mode
- Over 3.5 months of recording at 1-ips in Low Quality, Normal record resolution mode
- Automatic 20 second pre-event buffer
- Auto record time calculation based on record resolution, image quality and image rate
- DVR Validator software to verify admissibility of AVI video files
- Quick search by time, event, or recording session

Ordering Guide

A-CDVR80 Compact Digital Video Recorder, 80GB

Specifications

Storage: 80GB EIDE
Record Rates: 1-, 2-, 3-, 5-, 7.5-, 10-, 15-, and 30-ips
Quality Settings: Low, Medium, High
Resolution: Display 720 x 480 pixels
 Record 640 x 240 pixels
 320 x 240 pixels

Display Rate: 30 fps
Video Format: NTSC
Video Input: 1.0 Vp-p 75 Ohms
Video Output: 1.0 Vp-p, 75 Ohms
Audio Input: RCA, Line level
Audio Output: RCA, Line level
RS-232/485: RJ-11
Alarm Output: RJ-11, N.O./N.C
Alarm Input: RJ-11, TTL
Trigger Output: RJ-11, TTL
Compact Flash: Type I
Front Controls: JOG/SHUTTLE, PLAY, PAUSE, STOP, REC, SEARCH, ENTER, MENU, and POWER

Power Requirements: 12-40 VDC input
Power Consumption: 25 W max
 12 W typical

Ambient Temperature: 32° - 95°F (0° - 35°C)
Dimensions: (W x H x D)
 2.4" x 5.6" x 7.4"
Weight: 6 lbs

Optional Accessories

CDVR-FLASH64	Flash Memory Card, Flash Memory Reader for A-CDVR80
A-CDVRLB	Lockbox, CDVR
A-A2VCBNC	Cable, 6', RJ11 to (2) RCA and (2) BNC for connection to Observation Systems

Recording Duration (Days) Normal (320-pixel) Record Resolution, 80GB									
		1 ips	2 ips	3 ips	5 ips	7.5 ips	10 ips	15 ips	30 ips
QUALITY	High w/Audio	37.5	22.5	16	10	7.5	5.5	3.5	2
	High no Audio	56	28	18.5	11	8	5.5	3.5	2
	Medium w/Audio	48	30.5	22	14.5	10.5	7.5	5	2.5
	Medium no Audio	82.5	41	27.5	16.5	12	8	5.5	2.5
	Low w/Audio	56	36.5	27.5	18	13.5	10	7	3.5
	Low no Audio	107.5	54	36	21.5	15.5	11	7	3.5

For 640 x 240 record resolution, divide storage days by 2.



CDVR-FLASH64

A-CDVR80 Compact Flash Archiving Duration Normal (320-pixel) record Resolution

Stored Video		Minutes of Archived Video on a 64MB Compact Flash, no audio							
Quality	File Size	1 ips	2 ips	3 ips	5 ips	7.5 ips	10 ips	15 ips	30 ips
High	15.3KB	69.5	34.7	23.2	13.9	9.3	6.9	4.6	2.3
Medium	10.2KB	104.2	52.1	34.7	20.8	13.9	10.4	6.9	3.5
Low	7.6KB	138.9	69.4	46.3	27.8	18.5	13.9	9.3	4.6

Stored Video		Minutes of Archived Video on a 64MB Compact Flash w/ audio							
Quality	File Size	1 ips	2 ips	3 ips	5 ips	7.5 ips	10 ips	15 ips	30 ips
High	23,350	45.7	22.8	15.2	9.1	6.1	4.6	3.0	1.5
Medium	18,240	58.5	29.2	19.5	11.7	7.8	5.8	3.9	1.9
Low	15,680	68.0	34.0	22.7	13.6	9.1	6.8	4.5	2.3

Stored Video		Minutes of Archived Video on a 128MB Compact Flash, no audio							
Quality	File Size	1 ips	2 ips	3 ips	5 ips	7.5 ips	10 ips	15 ips	30 ips
High	15.3KB	139.0	69.5	46.3	27.8	18.5	13.9	9.3	4.6
Medium	10.2KB	208.3	104.2	69.4	41.7	27.8	20.8	13.9	6.9
Low	7.6KB	277.8	138.9	92.6	55.6	37.0	27.8	18.5	9.3

For 640 x 240 record resolution, divide storage time by 2.