

CVR-5

BETACAM SP PORTABLE VTR

Applications:

The CVR-5 portable VTR can be configured as an integral part of an Ampex camcorder or as a stand alone VTR. The CVR-5 records on either oxide or high quality metal particle Betacam SP tape so it's ideal for both ENG and EFP applications.

General:

As a stand-alone VTR, the CVR-5 can be configured to record input from a wide range of cameras—in either the component or composite domain.

Luminance or CTDM (Compressed Time Division Multiplex)

chrominance confidence playback is provided through the camera viewfinder during record or playback.

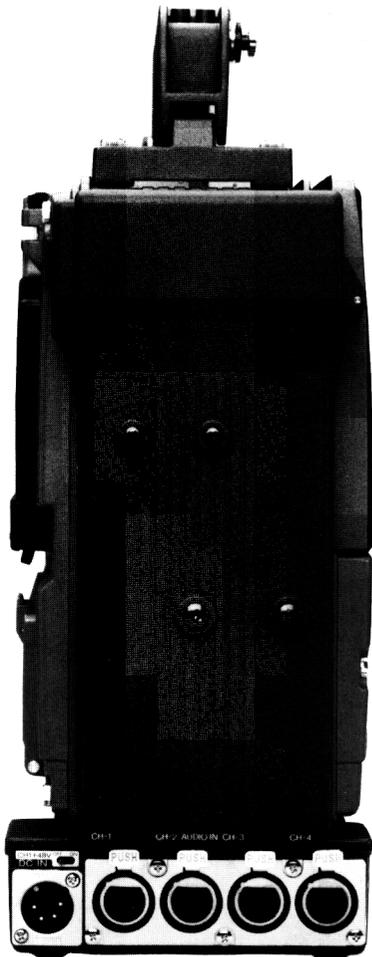
Four channels of audio are provided: two high performance AFM tracks and two longitudinal channels with Dolby* C noise reduction. A built-in 48V power supply may be switched on to power a remote condenser mic. Audio confidence playback is also provided.

A review/recue function rewinds and plays back the final seconds of a recording for review, then automatically recues for the next sequence.

To eliminate break-up between sequences, a frame accurate back-space assemble editing function automatically rewinds and recues the tape to the next edit point.

Longitudinal Time Code (LTC) with built-in reader and line selectable Vertical Interval Time Code (VITC) are both provided. The time code system includes presettable user bits, free-run or record-run modes, and genlock for synchronizing to an external time code master generator.

*Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.



Features:

- Level control/VU meters switch selectable for all four audio channels
- Full transport controls
- Time code/tape time display
- Video input level display
- 30 minute cassettes may be used
- Battery status display
- Warning indicators are also provided for status of:
 - RF
 - Servo lock
 - End of tape
 - Tape slack
 - Condensation
 - Low battery

Accessories:

- CVA-5—adapts the CVR-5 to accept either component or composite input from a wide range of cameras
- CVA-1—allows the CVR-5 to accept component input from a wide range of cameras
- CVA-500—provides baseband or color playback at full bandwidth plus one channel of audio for recording check or microwave transmission

Ask your Ampex sales office or authorized Ampex Dealer for a copy of our informative *Systems and Accessories Guide*.

Ampex offers a very wide variety of accessories and options designed to configure a Betacam system to meet your specific requirements.

CVR-5 Recorder Specifications (Playback on CVR-75)

	NTSC	NTSC	PAL/SECAM	PAL/SECAM
VIDEO (Component IN/OUT)	OXIDE TAPE	METAL PARTICLE TAPE		
Bandwidth, luminance	30 Hz to 4.1 MHz + 0.5/ - 6.0 dB	30 Hz to 4.5 MHz + 0.5/ - 3.0 dB		
Chrominance, R/Y/B-Y:	30 Hz to 1.5 MHz + 0.5/ - 3.0 dB	30 Hz to 1.5 MHz + 0.5/ - 3.0 dB		
S/N Luminance	48 dB	51 dB		
Chrominance	50 dB	53 dB		
K-factor (2T pulse)	Less than 3%	Less than 2%		
Chrominance/luminance Delay	Less than 20 nsec	Less than 20 nsec		
LF Linearity	Less than 3%	Less than 2%		
AUDIO	LONGITUDINAL: OXIDE TAPE	LONGITUDINAL: METAL PARTICLE TAPE	AFM METAL PARTICLE TAPE	
Frequency response	50 Hz to 15 KHz ± 3 dB	50 Hz to 15 KHz + 1.5/ - 3 dB	20 Hz to 20 KHz + 0.5/ - 2.0 dB	
S/N	50 dB (3% distortion level, without NR system)	54 dB (3% distortion level, without NR system)		
Dynamic range	N/A	N/A		More than 85 dB
Distortion (1 KHz ref. level)	Less than 2%	Less than 1.5%		Less than 0.5%
Wow and flutter	Less than 0.15% rms	Less than 0.15%		N/A
Crosstalk	Less than - 55 dB	Less than - 55 dB		Less than - 65 dB
Depth of Erasure	More than - 65 dB	More than - 65 dB		N/A
SIGNAL INPUTS	Video: Luminance Chrominance	1.0V p-p, 1 K Ohms unbalanced R/Y/B-Y: 0.7V p-p, 1 K Ohms unbalanced		
Audio Ch. 1/2/3/4	- 60/ + 4 dBm selectable High Impedance, balanced			
Time code	1.0V p-p, 75 Ohms			
Video (for TC)	1.0V p-p, 75 Ohms			
SIGNAL OUTPUTS	Video (for TC)	1.0V p-p, 75 Ohms		
Audio	Speaker, Earphone: - 20 dBm max (variable) (for 8 Ohm earphone)			
Time code output, BNC	1.0V p-p, 75 Ohms			
GENERAL	Record time	30 min./NTSC	34 min./PAL/SECAM	
Operating time	50 min. with NP-1A (with CVC-5 camera)			
Operating position	Horizontal or vertical			
Tape speed	11.86 cm/sec/NTSC	10.14 cm/sec/PAL/SECAM		
Rewind time	Less than 3.5 min. for 30 min. cassette			
Phantom power (A1)	45 VDC			
Dimensions	223 mm (8.8 in)H × 242 mm (9.5 in)W × 110 mm (4.3 in)D			
Weight	3.3 kg (7.3 lb)			
Temperature, Operating	0°C to + 40°C (32°F to 104°F)			
Storage	- 20°C to 60°C (- 4°F to 140°F)			
Humidity	Less than 85% RH			
Power requirements	DC 12V (11.0V to 17V) NP-1A, BP-90 Battery or optional AC/DC adaptor			
Power consumption	1.3W (1.2V, 830 mA), 2.4W in power-save mode			
Supplied accessories	3 Screws, 50-pin cap, Shoulder strap, DC-510 Battery Case, Operation/maintenance manual			

Ampex reserves the right to make product and specification changes at any time without notice.