

CVC-5

BETACAM CCD CAMERA

General:

The CVC-5 is a rugged, lightweight camera designed to deliver superior picture quality for ENG, especially under adverse conditions.

The camera is dust and moisture resistant and features a durable, die-cast magnesium alloy frame.

The solid-state CCD sensors are bonded directly to the prism block, forming a shock resistant and permanently aligned assembly unaffected by outside magnetic or electrical interference.

The camera's CCD technology eliminates lag, burn-in and microphonic noise. And CCD imaging geometry eliminates the need for registration adjustments.

High-sensitivity CCD sensors permit shooting in low-light locations, while a switchable Dynamic Contrast Control compresses high light signals in high-contrast situations.

Power consumption is about half that of a conventional tube camera, providing the operator with the options of carrying fewer batteries or enjoying longer recording times.



Features:

The CVC-5 has a long list of standard features designed for convenience and creative control:

- Automatic iris control
- Automatic white/black balance
- Four position filter wheel
- 2 white balance memories for each filter position with 3200° preset
- High resolution, adjustable viewfinder can be shifted right, left, forward and back
- Gen-lock input via adaptor or VTR
- Remote control capable via CA-3A/RM-P3 accessories
- Microphone
- Automatic white level compression
- Color bar generator

Viewfinder displays provide:

- Record status
- Tape remaining
- Filter position
- Video level
- Audio level and control (Ch. 1)
- Gain position
- White/black balance status
- Scene color temperature
- Battery condition

Accessories:

- CVR-1A or CVR-5 (SP) on-board VTRs
- CA-3A stand-alone adaptor enables the CVC-5 to feed component or composite video directly to a remote VTR
- RM-P3 Remote Control Unit provides basic remote control functions through the CA-3A adaptor

CVC-5 Camera Specifications

CAMERA	
Imaging device format	3-chip-2/3" CCD FIT type
Imaging array density	510(H) × 492(V) NTSC; 500(H) × 582(V) PAL
Optical system	F1.4 prism system
Built-in filters	1.3200°K, 2.5600°K + 1/4ND, 3.5600°K, 4.5600°K + 1/16 ND
Gain select	< 0/ + 9/ + 18 dB (+ 24 dB available)
Lens mount	Special bayonet mount
Video output	1.0V p-p, sync negative, 75 Ohms 2 outputs: TEST OUT, VTR connector 550 TV lines (Center)
Horizontal resolution	0.05% all zones (Excluding lens error)
Registration	Less than 1%
Geometric distortion	2000 lux at F5.6, 90% reflectance (NTSC)
Sensitivity	2000 lux at F5.0, 90% reflectance (PAL)
Minimum illumination	NTSC = 15 lux; PAL = 20 lux (with f1.4 lens, + 18 dB gain)
S/N ratio	NTSC: 58 dB, PAL: 55 dB
Connectors	VTR: 50-pin; TEST OUT: BNC; LENS: 12-pin
VIEWFINDER	
Picture tube	1.5 monochrome, BRIGHT control, CONTR control, TALLY switch, AUDIO control, ZEBRA on/off switch
Resolution	500 TV lines
REMOTE CONTROL	
Functions	CA-3A and RM-P3: Gain, Output Mode, Iris Auto/Man., Iris, Master Pedestal, R/B Pedestal, R/B level, W/B Balance, Lock.
Distance	RM-P3: 100 Meters (10M cable supplied)
GENERAL	
Power requirements	DC 12V (10.5V to 17V)
Power consumption	10.5W
Warm-up time	3.5 seconds from pre-heat condition
Operating temperature	- 20°C to + 45°C (- 4°F to 113°F)
Storage temperature	- 20°C to + 50°C (- 4°F to 122°F)
Microphone	Sharp-directional
Supplied accessories	Extension board, tripod adaptor, chest brace, extractor, rain cover, 50-pin cap, mount cap, carrying handle, op./maint. manual
Dimensions	236mm (9.2 in)H × 102mm (4 in)W × 478mm (18.8 in)L
Weight	Approx 3.2 kg (7 lb, 1 oz) with viewfinder

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

Applications:

The ability to deliver superior picture quality under adverse conditions makes the CVR-5 ideal for high quality ENG.

Our Betacam *Systems and Accessories* guide has a complete list of products as well as systems diagrams and other helpful information.