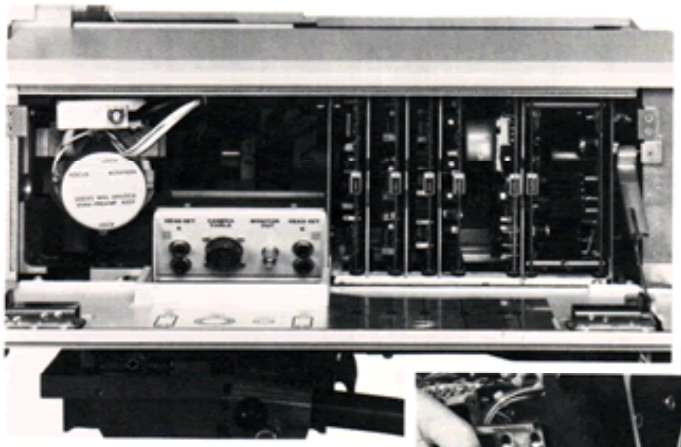
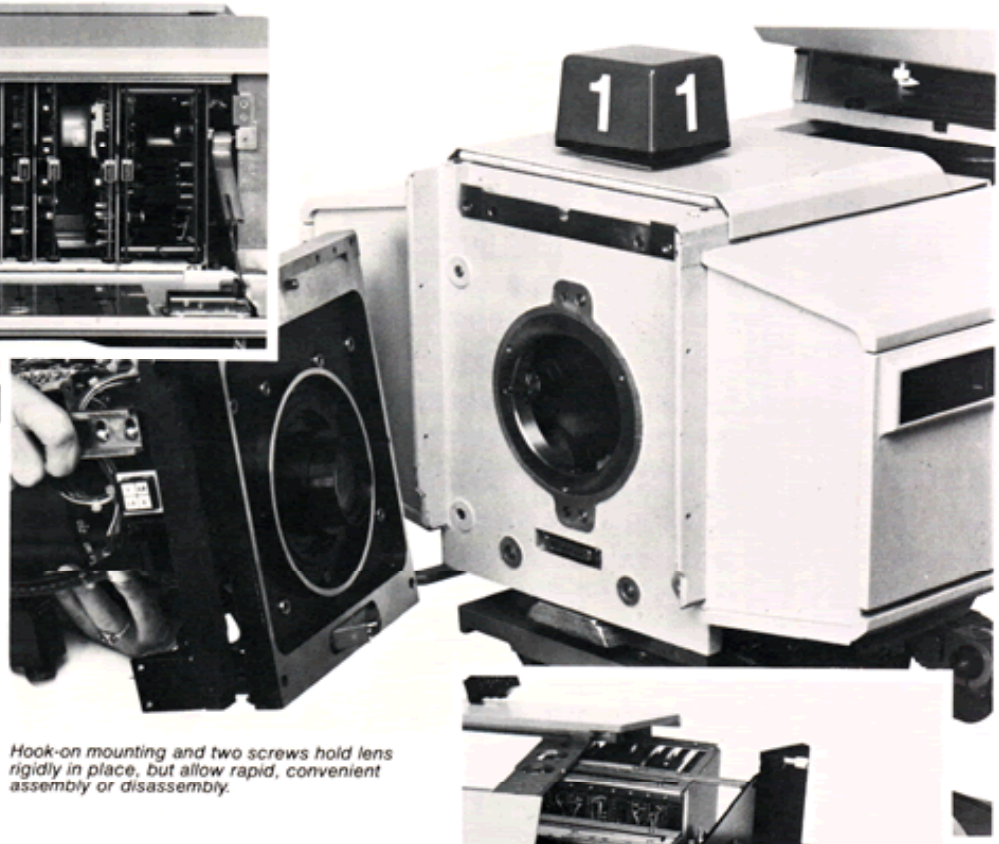
BCC-10
Broadcast Color Camera

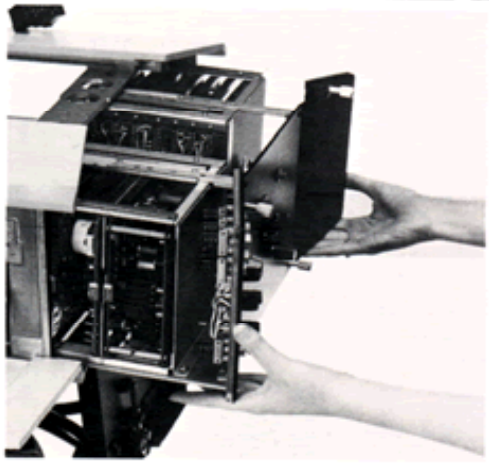
AMPEX



Uncluttered interior provides ease of accessibility



Hook-on mounting and two screws hold lens rigidly in place, but allow rapid, convenient assembly or disassembly.



Card cage slides out easily for bench top maintenance.

The BCC-10: An Innovative Balance of Mechanical Design & Maintenance Ease.

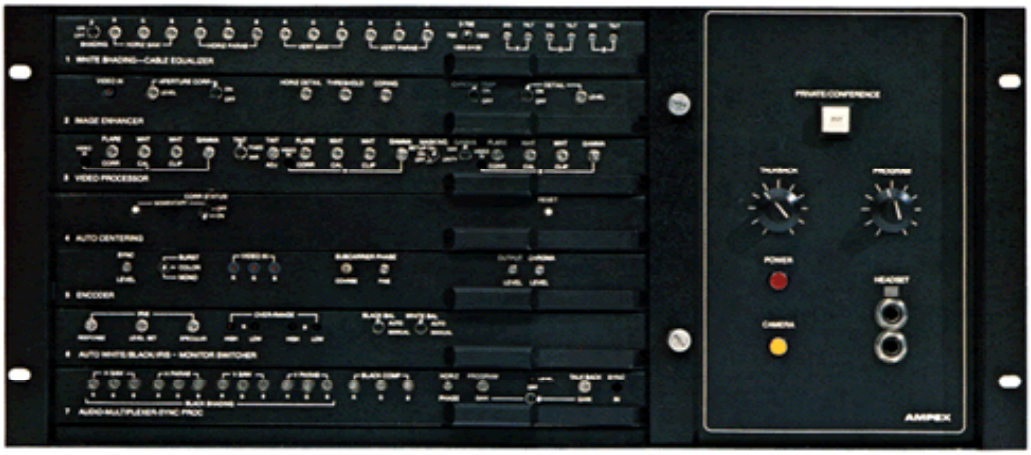
The mechanical side of the BCC-10 matches its electronic sophistication. In fact, provision for rapid accessibility as well as handsomely rugged design is an inherent part of the BCC-10. The function-fitting form is evident in the camera's stable, low profile modular head. Machined from rugged aluminum castings, it allows total access to all head components and electronics. A strong, weather-tight housing also provides exceptionally safe and easy assembly, disassembly and transport of the camera.

The BCC-10's pan and tilt viewfinder, like the camera head, offers a high degree of refinement in both operating ease and maintainability. With its special high-brightness flat-faced tube, the viewfinder tilts as well as rotates and employs an under-hood tally light and two screw removal of the complete assembly. This aids in maximum all-condition use and maintenance ease. The tally light also may be dimmed or turned off when desired. An outdoor viewfinder hood, most useful in high light conditions, is optional.

Perhaps the high point of the camera's mechanical side is the precision of the exquisitely machined, computer matched optical assembly. The rigid, one-piece, hook-on lens mount, employs simplified one point suspension as well as being light and dust-tight. The widest possible selection of lenses are available for the BCC-10. Over 25 different models from all manufacturers with zoom ranges from 10:1 to 42:1 may be fitted. The BCC-10 may be capped mechanically from the CCU plus the camera has a self-capping feature in the power-off state for fail-safe protection of the optics and pickup tubes.

Control panel

CCU



Remote control panel

Power supply

Wide open accessibility is a designed-in feature of the full BCC-10 camera system. Both the camera head and the viewfinder as well as the CCU are of modular design. The head permits complete removal of the card rack and is easily given a total on-bench circuitry test under operational conditions using extender cables. Just four screws are used to release the entire electronics card rack.

For added maintenance ease, the BCC-10 provides its own test signal for routine camera alignment and equalization. External test equipment is unnecessary for most maintenance and setup operations. With the BCC-10's 1000 hour set-up interval, inherently stable electronics and circuit designs meeting temperature specifications from −15°C to +45°C, the camera is a maintenance dream come true.

BCC-10 Specifications

POWER
95-130 V rms or 190-260 V rms.
47-63 Hz @ ≈ 500 VA

SCANS
EIA ..... 525/60 fields/s
CCIR ..... 625/50 fields/s

COLOR STANDARDS
NTSC, PAL/I/B, PAL-M, SECAM

INPUTS
EIA/CCIR composite sync and subcarrier and 7.8 kHz square wave or PAL-P pulse

OUTPUTS
2—75 ohm video outputs, one composite and one selectable composite/non-composite. Separate R-G-B outputs.

TYPICAL PERFORMANCE

SENSITIVITY
Full output obtained under following conditions:
Zero added gain: 75 fc, 60% reflectance chart @ f/2.8
12 dB added gain: 6 fc, 60% reflectance chart @ f/1.6

SIGNAL-TO-NOISE RATIO
54 dB—NTSC (4.2 MHz bandwidth)
52 dB—PAL (5.5 MHz bandwidth)
—luminance channel, zero added gain, unity gamma, zero enhancement

ENVIRONMENTAL
temperature range
camera ..... −15°C to +45°C
CCU ..... 0°C to +45°C

STABILITY
CAMERA HEAD: All controls stable over −15°C to +45°C (auto centering on) after 10 minute warmup period and over any 1000 hour interval.

CCU: All controls stable over 0°C to +45°C after 10 minute warmup period and over any 1000 hour interval.

REGISTRATION ACCURACY
Zone 1 (circle equal to 0.8 picture height) .05%
Zone 2 (circle equal to picture width) 0.1%
Zone 3 (elsewhere) 0.2%

GEOMETRY
Zone 1 less than 0.25%
Zone 2 less than 0.5%
Zone 3 less than 1.0%

Registration accuracy and geometry specifications do not include lens deviations and are measured with average Plumbicon tubes.

MODULATION DEPTH
In the G signal, when transmitting a 5 MHz bar pattern at optimum setting in center of screen without aperture correction >40% (depending on tubes) with aperture correction adjustable to 100%.

RESOLUTION
Limiting 650 lines (depending on Plumbicon tube)

VIEWFINDER
Brightness: 200 foot lamberts (685 NIT) high frequency peaking, switchable

DIMENSIONS

	Length	Width	Height	Weight
Camera Head	560mm (22 in)	483mm (19 in)	280mm (11 in)	36kg (79 lb)
Viewfinder	280mm (11 in)	222mm (8.75 in)	178mm (7 in)	5.5kg (16 lb)
	Depth	**Width**	**Height**	**Weight**
CCU	500mm (19.7 in)	483mm (19.0 in)	222mm (8.75 in)	18kg (39.5 lb)
Power Supply	500mm (19.7 in)	483mm (19.0 in)	133mm (5.25 in)	20.1kg (44.2 lb)
Control Panel	116mm (4.6 in)	483mm (19.0 in)	178mm (7.0 in)	6.4kg (14 lb)

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

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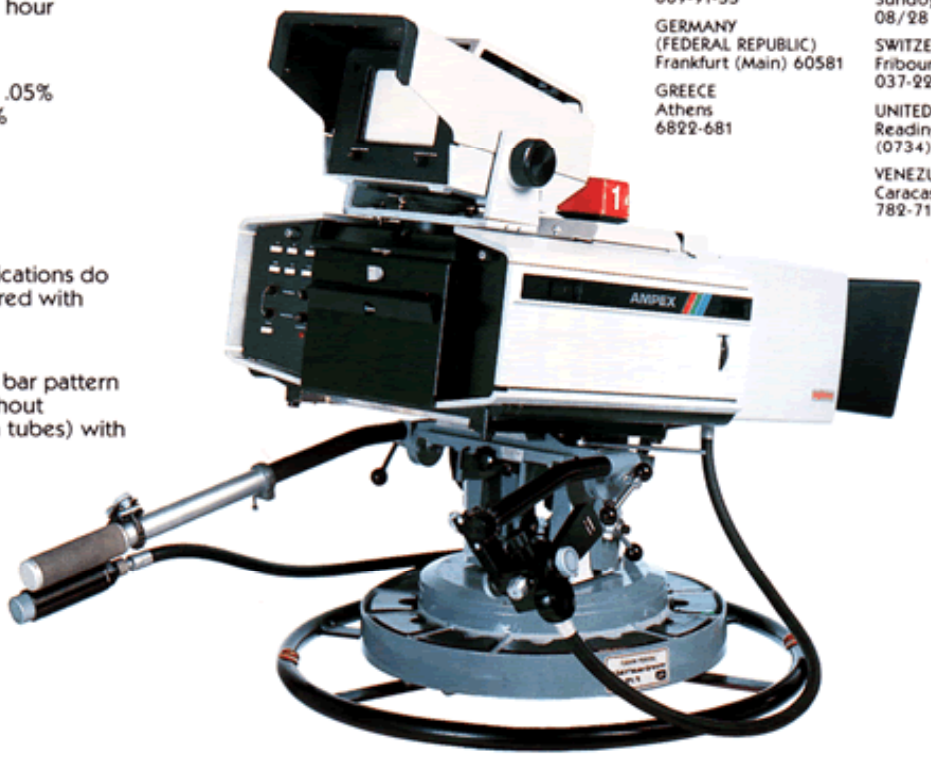

AMPEX
Ampex Corporation, Audio-Video Systems Division
401 Broadway
Redwood City, California 94063

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