

BCC **3** COLOR
TELEVISION
CAMERA

AMPEX



Big Camera Quality and Rugged Versatility in an Economical, Compact Package

BCC-3

Picture the ideal medium-priced camera in your studio. A camera that's rugged and compact, yet features three 1" Plumbicon* tubes; a camera that displays quality design, both aesthetically and electronically; a camera that highlights maintenance accessibility and rock solid construction: a camera with excellent geometry, registration, and signal-to-noise ratio; a camera with a host of "big camera" features. one that fulfills the need for top quality performance at a reasonable price.

Picture these advantages in your studio, and you'll discover there is only one camera in its price range that can offer them all—the BCC-3.



The BCC-3 camera control unit, with close up view of the controls.

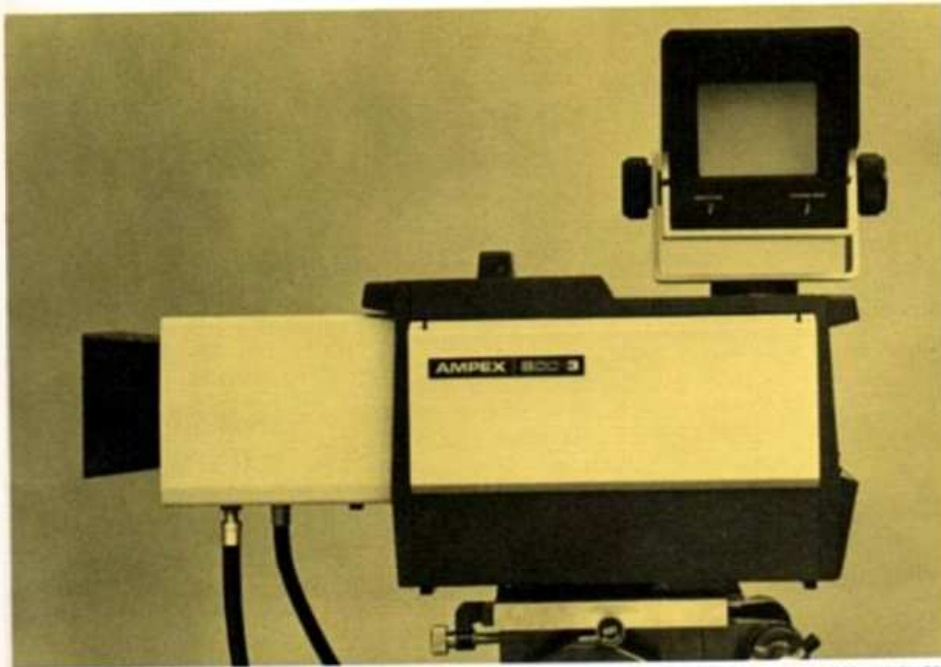




FEATURES:

- Excellent Registration and Geometry
- Superb Signal-to-Noise Ratio
- Rugged Cast Aluminum Case
- 600-Line Limiting Resolution
- Convenient Maintenance and Setup
- Tilttable, Rotable Viewfinder
- Built-in Iris Servo and Video Level Indicator
- Two- or Four-wire Intercom System
- Versatile Camera Control Unit with:
 - 2-line vertical and horizontal enhancer coring and combing
 - Unique luminance black stretch control for high contrast picture control capability
 - Shading correction
 - Plug-in PWAs
 - Picture and waveform monitors
 - Optional joystick remote control.

In general, the BCC-3 offers many features not found on medium priced cameras. From general points like its well designed maintenance accessibility, to small but thoughtful details like its built-in iris servo, video level indicator, six-position filter wheel (operable from the rear), and script clip—it's clear that this is a camera system designed with the operator, as well as the budget in mind.



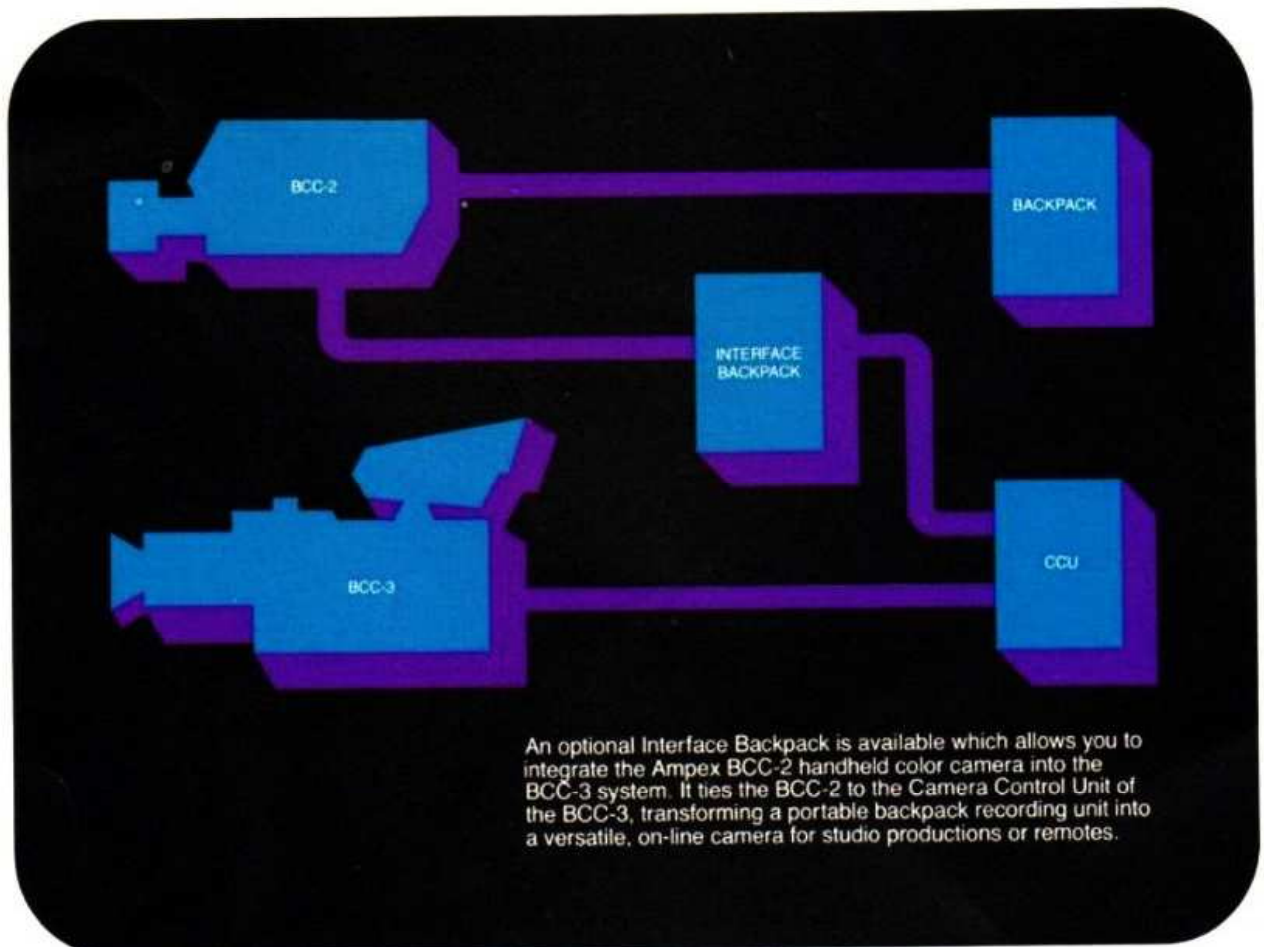
The viewfinder rotates 90° and tilts 35°

BASIC SYSTEM

- Camera head
- Viewfinder
- Camera control unit
- Local control unit
- Intercom amplifier
- 100-foot cable

OPTIONAL ACCESSORIES

- Enhancer
- Encoder
- Pulse advance/gen lock
- Custom-length cables
- Remote control unit
- Lenses and lens accessories
- Tripods and dollies
- Pan/tilt heads
- Picture and waveform monitors
- Interface backpack for BCC-2
- Plumbicon tubes



An optional Interface Backpack is available which allows you to integrate the Ampex BCC-2 handheld color camera into the BCC-3 system. It ties the BCC-2 to the Camera Control Unit of the BCC-3, transforming a portable backpack recording unit into a versatile, on-line camera for studio productions or remotes.

The Ideal Combination

QUALITY

The BCC-3 highlights economy, long lasting construction, time and labor saving features, broadcast quality electronics, and an adaptability to a wide variety of uses, both in the studio and on location.

It utilizes three 1" Plumbicon tubes (including an extended red), and printed circuit yokes.

A variety of lens options is available. Because of its unique optical system, lag is reduced by some 50 percent. All optical elements are mounted on a stable, one-piece optical bench. The optical compartment is protected against dust, light and moisture. Yokes and preamplifiers are fully shielded against RF pickup and other magnetic disturbances.

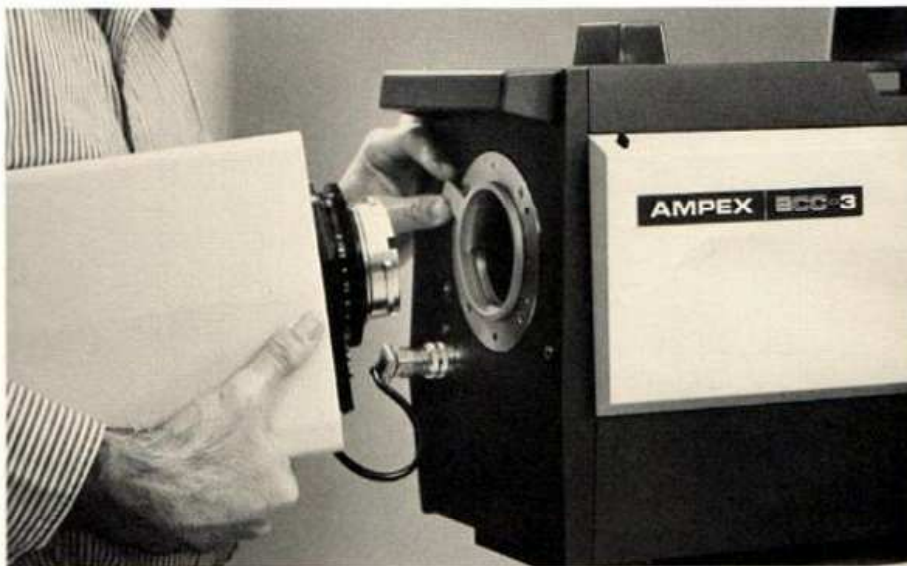


Viewfinder is easily removed

VERSATILITY

Because the BCC-3 is rugged, lightweight and features a tough, cast aluminum camera head case, you can take it out of the studio and ship it with confidence that it will perform with consistent quality at its destination, whether it be inside another studio or at a remote location.

It features a small diameter camera cable which can be equalized to 1000 feet. Timing is accomplished with an optional automatic pulse delay accessory. Adjustable masking insures a very precise colorimetry match with other cameras.



The lens mounts and disconnects quickly

ACCESSIBILITY

Because the BCC-3 is a newly designed camera it offers the best in maintenance accessibility. Its camera control unit features plug-in printed circuit cards, and maintenance adjustments which are conveniently located on the edge of the cards. All operational controls are on the front of the camera control unit and local control unit. The viewfinder can be easily removed in a matter of seconds, and the lens features a quick-disconnect mount for convenient lens changing.

ADDITIONAL CONVENIENCE FEATURES

A unique video level indicator is provided to give the operator a visual indication of signal level. This allows the camera operator to adjust the iris at the camera head during setup.

The viewfinder is capable of operating remotely from the camera head and rotates 90° for added convenience during setup and maintenance. It tilts 35°. A video crispener switch provides easy focusing under adverse lighting conditions. A return video feed is standard on the BCC-3.

BCC 3 COLOR TELEVISION CAMERA

SPECIFICATIONS*

Power

100-250V rms, 50-60 Hz

Scans

EIA 525/60 field/s
CCIR 625/50 field/s

Color Standards

NTSC, PAL-1/B, PAL-M, or SECAM

Inputs

EIA/CCIR composite sync, blanking, vertical drive, horizontal drive, sub carrier, 7.8 KHz pulse (PAL only).

Outputs

Composite video 1V pk-pk 75Ω NTSC or PAL

Registration Accuracy

Zone 1 (circle equal to 0.8 picture height) 0.1%
Zone 2 (circle equal to picture width) 0.2%
Zone 3 (elsewhere) 0.4%

Geometry

Zone 1 less than ±0.5%
Elsewhere less than ±1% (excluding zoom lens distortions).

Sensitivity/Signal-to-Noise

A 50 dB (unweighted) signal-to-noise ratio when the camera is delivering a 0.7 volt white signal will be achieved under the following conditions:

3200°K; 50 f/c incident; iris at f/2.8; contours ON, bandwidth limited to 4.2 MHz, viewing 60% reflectance Munsell white, unity gain.

OR—under the above conditions, but with 15 f/c incident light and +12 dB gain, the camera chain shall deliver 1.0 volt composite or 0.7 volt noncomposite output with a minimum of 38 dB Signal-to-Noise.

*Subject to change without notice.

Environmental

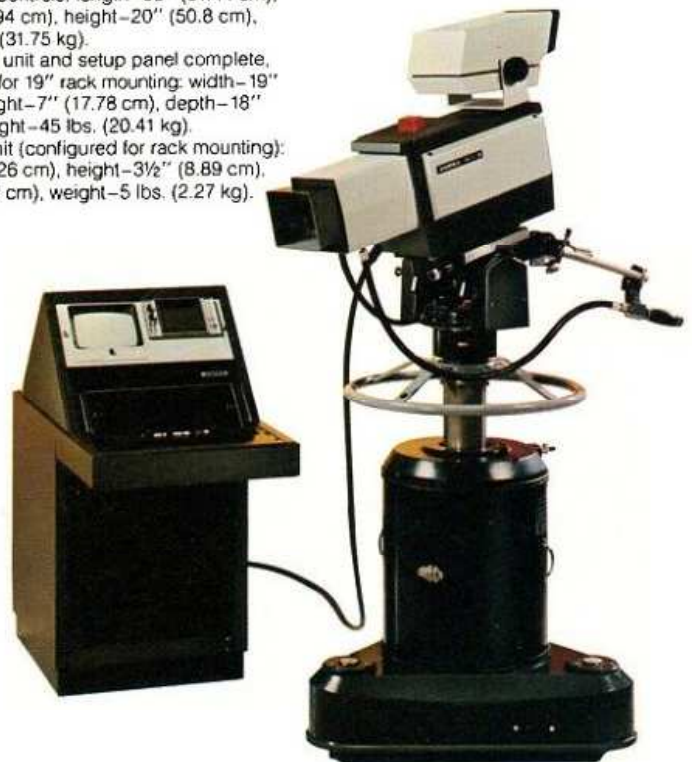
Temperature range (complete system) -15° to +50°C.

Stability

The camera will meet all requirements of the specifications within 15 minutes of applying power. From the standby mode tracking or white and black level shall be within ±1%, after 3 minutes of operation. A usable picture shall be available 10 to 15 seconds from standby mode.

Mechanical

1. Camera head (with viewfinder and Schneider 10:1 zoom lens and controls: length-36" (91.44 cm), width-11" (27.94 cm), height-20" (50.8 cm), weight-70 lbs. (31.75 kg).
2. Camera control unit and setup panel complete, and configured for 19" rack mounting: width-19" (48.26 cm), height-7" (17.78 cm), depth-18" (45.72 cm), weight-45 lbs. (20.41 kg).
3. Local control unit (configured for rack mounting): width-19" (48.26 cm), height-3½" (8.89 cm), depth-3" (7.62 cm), weight-5 lbs. (2.27 kg).



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