

Vidicon Studio Camera,

Everything about the PK-330 Studio Camera is new and imaginative . . . an ultra sensitive, high performance vidicon pickup tube . . . a pan and tilt head built into the camera . . . a viewfinder that never swings up or down . . . fully transistorized plug-in module construction . . . and many other features in a camera only half the size of most cameras. Fresh, user-engineered concepts incorporated in the PK-330 have replaced traditional designs to bring new economy, reliability and higher standards of performance to educational, broadcast and military studios.

Crisp, High Resolution Pictures

A new excellence in picture quality is achieved by the broadcast type aperture and gamma correction circuits in the PK-330 working in conjunction with the RCA Type 8507 magnetic focus and deflection vidicon. Developed especially for live pickup use, this one-inch tube employs a separate field mesh electrode together with an extremely sensitive and uniform photo surface. Resulting picture background is completely free of "flare" and picture fidelity is increased. The exceptionally high resolution of 850 lines in the center of the picture and at least 600 lines in the corners is achieved through the advanced engineering concepts incorporated in the PK-330 camera.

Built-In Pan and Tilt Head

Through unique packaging, the lens pan and tilt mechanisms are integral parts of the PK-330, permitting the camera to mount directly to the tripod or pedestal and eliminating any need for the costly external cradle or friction head required for other cameras. This industry "first" results in a lighter, more compact camera-pedestal assembly; it also has the important advantage that the viewfinder kinescope always stays at eye level regardless of the position of the camera lens. No more need for cameramen to tip-toe and squat, and they can touch up the framing and focus at any time. The camera lens can be operated through a 360 degree pan range and an 80 degree vertical tilt angle, which exceeds the normal tilt angle of friction-head mounted cameras.

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General

Type of Reproduction ..... Monochrome
Scanning Standards ..... 525 lines, 60 fields, 2:1 interlace
Vidicon Beam Alignment ..... Electromagnetic
Vidicon ..... 1" electromagnetic focus and electromagnetic deflection, Type 8507

Picture Quality

Horizontal Resolution ..... 850 lines in center, 600 lines in corners
Video Amplifier Response ..... 10 MHz ±1 dB before high peaking and aperture correction
Gamma Correction ..... Choice of 1.0 or 0.7
Aperture Correction ..... Phaseless delay line correction adjustable 12 dB, switchable to 4 or 8 MHz
Gray Scale ..... Reproduces 10 shades of gray from standard test chart
Signal-to-Noise Ratio ..... At least 40 dB, camera viewing standard test chart with f/1.5 lens and 50 foot-lambert highlight brightness
Total Raster Distortion ..... Within 2% of picture height
High Peaking ..... Adjustable for optimum compensation
Automatic Sensitivity Control ..... Compensates for 2,000:1 change in scene brightness with less than 50% change in video level

Electrical

Video Outputs ..... Two 75-Ohm source terminated, composite or non-composite, conforming to EIA or CCIR Standards
Video Output Level ..... 0.7 Volt peak-to-peak non-composite, 1.0 Volt peak-to-peak composite
Pulse Inputs ..... 4.0 Volts EIA/CCIR Sync or sync and blanking, depending on desired operating mode
Protective Circuits ..... Automatic lens capping when camera is turned off. Automatic vidicon protection in the event of vertical or horizontal deflection failure
Power Requirements ..... 115/230 Volts ±10%, 47 to 63 Hz, 70 Watts
Control Panel:
  Local ..... On rear of camera
  Remote ..... Rack or console mounting, up to 5,000 feet from camera
Camera Cable Length ..... Specified performance with up to 1,000 feet

Environmental

Temperature ..... –20°C to 50°C
Relative Humidity ..... Up to 95%
Altitude ..... Up to 10,000 feet

Mechanical

Lens ..... Motor-driven zoom lens, standard "C" mount Choice of 4:1 range (17mm-70mm, f/2.0) or 10:1 range (15mm-150mm, f/2.8)
Camera Case ..... Built-in viewfinder light hood, hinged cover
Finish ..... Aluminum and shadow blue textured vinyl
Dimensions and Weight:
  Camera/Viewfinder ..... 10" high, 12" wide, 23" long, (25.4 cm, 30.5 cm. 58.5 cm)
  Power & Control Unit ..... 5¼" high, 8½" wide (13.3 cm, 21.6 cm)
  Weight ..... 50 lbs. (22.7 kg.)

Accessories

Rack Mount Adaptor for Standard Remote Control Panel MI-47792
Adaptor to Mount Standard Remote Control Panel in unused half of MI-557300 Processor Frame MI-48178
Blank Half Panel, occupies one half of MI-47792 ..... MI-47793
Pair of Blank Quarter Panels, occupies one half of MI-47792 ..... MI-47794
Rack Mounting Adaptor for "New Look" Remote Control Panel MI-557306
Blank Panel, occupies one quarter of MI-557306 ..... MI-556530-1
Blank Panel, occupies one half of MI-557306 ..... MI-556530-2
Blank Panel, occupies three quarters of MI-557306 ..... MI-556530-3
Blank Module, occupies unused space in MI-557300 Rack Frame (2 required in single camera systems) MI-557302-9
Heavy Duty Tripod MI-48139
Heavy Duty Dolly MI-48140
Mounting Adaptor, mounts PK-330 on heavy duty tripod MI-48158
Mounting Adaptor, mounts PK-330 on Houston Fearless pedestals ..... CB
Bulk Remote Control Cable MI-48177

Ordering Information

Single PK-330 Camera System, including:
  (1) Camera/Viewfinder MI-48003-A
  (1) Processor MI-48004-C
  (1) Rack Mounting Frame MI-557300
Dual PK-330 Camera System, including:
  (2) Camera/Viewfinder MI-48003-A
  (2) Processor MI-48004-C
  (1) Rack Mounting Frame MI-557300

Lenses

Motorized 4:1 Zoom Lens, 17-70mm, f/2.0 ..... MI-48179
Motorized 10:1 Zoom Lens, 15-150mm, f/2.8 ..... MI-48180

Remote Control Panels

Standard Remote Control Panel, occupies half of MI-47792 adaptor MI-47839
"New Look" Remote Control Panel, occupies one quarter of MI-557306 adaptor MI-47844

Cable

50 ft. Camera Cable with right angle male connector ..... MI-26725-E9 (must be used when processor is mounted in 18" depth)
50 ft. Camera Cable with straight connectors MI-26725-E5
100 ft. Camera Cable with straight connectors MI-26725-E6
200 ft. Camera Cable with straight connectors MI-26725-E7
50 ft. Remote Control Cable Assembly with connectors MI-48188-50
100 ft. Remote Control Cable Assembly with connectors MI-48188-100
200 ft. Remote Control Cable Assembly with connectors MI-48188-200

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