

Vidicon Camera

**MODELS
70-B & 70-BR**

NEW 600 LINE RESOLUTION TELEVISION CAMERA

FEATURES

- △ Automatic or manual vidicon target control — switch selected.
- △ Automatically compensates for light level changes of 2000:1.
- △ Non-microphonic — Transistorized video amplifier (8 mc bandwidth).
- △ Essential camera controls available on rear of camera (70-B).
- △ Readily adapted to remote control.
- △ Intercom circuitry — 3-circuit jack on rear of camera.
- △ Completely self-contained.
- △ Low internal ambient temperature rise.

DESCRIPTION

The Model 70-B camera is a rugged, reliable unit, with many built in features permitting it to do an excellent job in any application. The capability to automatically adjust to wide variations in light levels make this camera ideal for those installations involving day and night type light level changes. Security applications as well as many industrial processes demand this type of capability. Manual control of this function is provided by simply turning a switch.

The versatility of this camera makes it extremely adaptable to installations requiring remote operation of the camera itself, as well as the standard accessories. Camera functions as well as accessory functions are brought out of the rear of the camera into a standard Cannon connector. One multiconductor cable then connects the camera to the Model 772-B remote camera and accessory control. A 3-circuit intercom jack is also located on the rear of the camera and connects through this same interconnecting cable to a matching jack on the back of the camera control. Dage accessories are compatible with the advanced Model 70-B camera.

The completely self-contained camera employs a transistorized video amplifier which eliminates microphonic problems commonly found in vacuum tube circuitry. The camera operates on standard 115V AC 60 cycle power and requires only 45 watts of power.



Model 70-B With Local Control



Model 70-B or 70-BR With Remote Control

MODEL 70-BR

All specifications of the Model 70-BR camera are identical to those of the Model 70-B with the exception of the added function of the remote control of optical focus. Both the vidicon and deflection yoke of the camera are moved by a motor drive assembly, guided by bronze bearings assuring a smooth sharp adjustment of the picture. This optical focus function is also controlled through a Dage Camera-Accessory Control.

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SPECIFICATIONS

ELECTRICAL

This equipment is suitable for use on 50 or 60 cycle mains supplies.

Scanning Frequencies

Horizontal 15,750 cps nominal, crystal controlled
Vertical locked to power line

Sweep Adjustments

On Camera Chassis Horizontal Size Vertical Size
..... Horizontal Linearity Vertical Linearity
..... Horizontal Centering Vertical Centering
Tube Complement 12AT7(3); 12B4(1); 12BH7(1); 6U8(1); 7697(1)

Camera Adjustments

External Beam
..... Electrical Focus (Electronically regulated)
..... Black level
..... Target — automatic or manual
..... Power — On/Off

Target of Vidicon

Automatic Control Electrically regulated. Automatically adjusts to variations in light level of 2000:1.
Manual Control Available at option of operator by simply turning a switch, can be adjusted for any light level.

Video Amplifier 8 mc bandwidth — transistorized — plug-in module

Resolution 600 lines horizontally

Output Composite Video — Black Negative
..... 0.5 to 1.0 volts (p-p)
..... Directly related to scene illumination and lens used.

Impedance 75 ohms

Power Requirements 105-125V AC @ 45 watts.

Camera Connectors

Video Out BNC UG-625/U
Intercom 3-circuit phone jack (Switchcraft 12B)
Camera Functions and Video Cannon NK-27-32-SL (Main Connector)
Remote Turret Cannon RGK-9-31SL
Remote Zoom Lens Cannon RGK-9-31SL
Pan and Tilt Cannon RGK-R7-31SL

MECHANICAL

Temperature Range +14°F to +122°F (−10°C to +50°C)

Mounting Base of camera provided with standard 14/20 tapped hole

Lens Mount Standard 16mm "C" mount. Mounting provisions for multiple lens turret

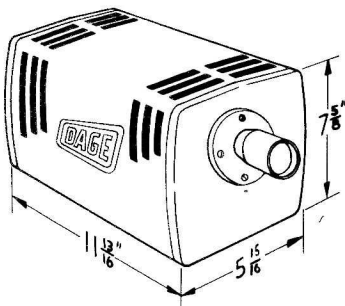
Finish Enamel and Vinyl-clad aluminum

Weight 12 lbs.

Shipping Weight 15 lbs.

Physical Dimensions

Height 7-5/8"
Width 5-15/16"
Length 11-13/16"



Specifications subject to change without notice.