

LTC 0330/x1 Series Monochrome Cameras

- 1/3-inch Format CCD Imager
- High Sensitivity
- Standard Resolution
- Backlight Compensation
- Electronic Shutter
- Video and DC Iris Control
- Line Lock With External Phase Adjustment
- Models for mains supply and AC/DC low voltage



The LTC 0330 Series are compact, rugged, 1/3-inch image format monochrome CCD cameras. Their high sensitivity and reliability provide optimal performance in all environments.

Both the CCIR and EIA RS-170 versions are available for direct mains voltage supply and ac/dc low voltage supply. Each offering wide power supply voltage range allowing flexible installation. These cameras are provided with a standard CS-mount

for use with a wide variety of lenses. They can be used with fixed iris lenses, manual iris lenses, DC-iris lenses, and video-iris lenses.

Their excellent scene reproduction is supported by back-light compensation. With user selectable backlight compensation, the camera responds to the average content of the entire video signal, or can be activated to establish a central area for automatic light control. If an object falls within this area, the camera will automatically

adjust to set optimum contrast. This is particularly useful in applications having bright light such as doorways, loading docks, windows, and ATMs (automatic teller machines).

Enhanced picture quality and outstanding reliability make them an excellent choice for professional, commercial, and industrial surveillance systems in both indoor and outdoor applications.

SPECIFICATIONS

Electrical

| Model No. | Rated Voltage | Voltage Range |
|-------------------------|-------------------------|--------------------------------|
| CCIR Model | | |
| LTC 0330/11 | 24 VAC, 50 Hz 12 VDC | 12 to 24 VAC 10.8 to 33 VDC |
| LTC 0330/51 | 230 VAC, 50 Hz | 85 to 264 VAC |
| EIA RS-170 Model | | |
| LTC 0330/21 | 24 VAC, 60 Hz 12 VDC | 12 to 28 VAC 10.8 to 39 VDC |
| LTC 0330/61 | 120 VAC | 85 to 132 VAC |

Power dissipation: ≤ 2.5 W for all models.
All /11 and /21 models operate on AC or DC.

Imager: Interline transfer CCD; 1/3-inch image format.

Active Picture Elements:

CCIR Models: 512 H x 582 V

EIA RS-170 Models: 512 H x 492 V.

Horizontal Resolution: 380 TVL.

Sensitivity (3200 K):

| | | Usable Picture (501RE) | Full Video |
|---------------------------------|----|---------------------------|---------------|
| Scene illumination ¹ | fc | 0.015 | 0.05 |
| | lx | 0.15 | 0.5 |
| Imager illumination | fc | 0.002 | 0.007 |
| | lx | 0.02 | 0.07 |

1. For f/1.2 lens, 75% scene reflectance.

Signal-to-Noise: ≥ 50 dB minimum.

Electronic Shutter: Automatic, 1/60 to 1/100000.

AGC: 30 dB.

Backlight Compensation: Center window weighting for AGC, electronic shutter and DC-iris.

Contouring: Horizontal.

Video Output: 1.0 Vp-p, 75 ohm.

Synchronization:

Line-Lock (When powered by AC): Synchronizes camera to power line zero crossing for roll-free vertical interval switching. Vertical phase delay can be externally adjusted to allow vertical synchronization in multiphase power installations.

Free Running, when powered by DC.

Controls:

Phase Adjust Range: 300° (when powered by AC).

Backlight Compensation: On/Off.

Back-Focus: External adjustment.

Iris: DC/Video.

DC Iris Level: Low/High.

Automatic Electronic Shutter: On/Off.

Connectors:

Video Out: BNC.

Iris: 4-pin connector.

Power:

/11 and /21: Screw terminals, power supply input terminals are isolated from video output terminals.

/51: Mains lead with 2-pin EURO connector

/61: Mains lead with 2-pin USA type connector.

Mechanical

Lens Mount: CS.

Camera Mounts: 1/4"-20 UNC, top and bottom.

Finish/Case: Mushroom/metal housing.

Dimensions:

Housing size: 121 L x 68 W x 49 H mm (4.76 x 2.68 x 1.93 in).

Including connectors and mounting block:: 130 L x 68 W x 59 H mm (5.12 x 2.68 x 2.32 in)

Weight: 0.49 kg (1.1 lb).

Environmental

Operating Temperature: -20 °C to +55 °C (-4 °F to +131 °F).

Electromagnetic Compatibility

EMC Requirements:

CCIR Models: 89/336/EEC.

Immunity: EN50130-4.

Emission: EN50081-1 Class B.

EIA RS-170 Models: U.S.A. and Canada.

FCC Part 15, Class B.

ICES-003.

Safety:

CCIR Models: CE.

EIA RS-170 Models: UL & cUL.

Accessories

Power Transformers and Power Supplies:

| Model No. | Rated Input | Rated Output |
|-------------|-----------------------|---------------|
| TC1323 | 120 VAC, 60 Hz | 24 VAC, 10 VA |
| TC1334 | 120 VAC, 60 Hz | 24 VAC, 30 VA |
| TC120PS | 120 VAC, 50/60 Hz | 15 VDC, 9 VA |
| TC220PS | 220-240 VAC, 50/60 Hz | 15 VDC, 9 VA |
| TC220PSX-24 | 220-240 VAC, 50/60 Hz | 24 VAC, 20 VA |
| LDH 4466/11 | 230 VAC, 50 Hz | 18 VAC, 10 VA |



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