

LTC 0350/xI Series Monochrome Cameras

- **1/3-inch Format CCD Imager**
- **High Sensitivity**
- **High 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 0350 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 automatic black level, symmetrical contour enhancement and back-light compensation. The automatic black level feature enhances contrast by removing veiling glare from the picture. 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 0350/11	24 VAC, 50 Hz 12 VDC	12 to 24 VAC 10.8 to 33 VDC
LTC 0350/51	230 VAC, 50 Hz	85 to 264 VAC
EIA RS-170 Model		
LTC 0350/21	24 VAC, 60 Hz 12 VDC	12 to 28 VAC 10.8 to 39 VDC
LTC 0350/61	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: 752 H x 582 V

EIA RS-170 Models: 768 H x 492 V.

Horizontal Resolution: 570 TVL.

Sensitivity (3200 K):

		Usable Picture (50IRE)	Full Video
Scene illumination ¹	fc	0.01	0.04
	lx	0.1	0.4
Imager illumination	fc	0.0014	0.0055
	lx	0.014	0.055

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.

Aperture Correction: Horizontal.

Video Output: 1.0 V_{p-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

Lenses:

DC Voltage Control Iris:

LTC 3314/20: 2.8 mm, F1.2 to 90.

LTC 3334/20: 4 mm, F1.2 to 90.

LTC 3344/20: 8 mm, F1.2 to 90.

LTC 3364/20: 2.8-6 mm, F1.2 to close

LTC 3364/30: 3.5-8 mm, F1.4 to close.

Manual Iris:

LTC 3311/20: 2.8 mm, F1.2 to close.

LTC 3331/20: 4 mm, F1.2 to close.

LTC 3341/20: 8 mm, F1.2 to close.

LTC 3361/20: 2.8-6 mm, F1.2 to close

LTC 3361/30: 3.5-8 mm, F1.4 to close.

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



PHILIPS

Let's make things better.