

LTC 0430/x1 Series Digital Color Cameras

- 1/3-inch Format CCD Imager
- High Sensitivity
- Standard Resolution
- Auto White Balance
- Backlight Compensation
- Electronic Shutter
- Video and DC Iris Control
- Line-Lock With External Phase Adjustment
- Accepts AC or DC Voltages



The LTC 0430 Series are compact, rugged, 1/3-inch image format digital color CCD cameras. Their high sensitivity and reliability provide optimal performance in all environments.

Both the PAL and NTSC versions are available for direct mains voltage supply and ac/dc low voltage supply. Each offering wide a 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 white balance and back-light compensation.

The wide range of the trough the lens automatic sensing white balance provides true to life color images in indoor and outdoor applications.

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, true color reproduction, and outstanding reliability makes 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
PAL Model		
LTC 0430/11	24 VAC, 50 Hz 12 VDC	12 to 24 VAC 10.8 to 33 VDC
LTC 0430/51	230 VAC, 50 Hz	85 to 264 VAC
NTSC Model		
LTC 0430/21	24 VAC, 60 Hz 12 VDC	12 to 28 VAC 10.8 to 39 VDC
LTC 0430/61	120 VAC, 60 Hz	85 to 132 VAC

Power consumption: ≤ 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:

PAL B Models: 512 H x 582 V.
NTSC Models: 512 H x 492 V.

Horizontal Resolution: 330 TVL.

Sensitivity (3200 K):

		Usable Picture (501RE)	Full Video
Scene illumination ¹	fc	0.15	0.45
	lx	1.5	4.5
Imager illumination	fc	0.02	0.06
	lx	0.2	0.6

1. For f1.2 lens and 75% scene reflectance.

Signal-to-Noise: ≥ 50 dB minimum.

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

AGC: 33 dB.

Contouring: Horizontal and vertical.

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

White Balance: Automatic Sensing (Thru the lens):
(≈ 2500 K to 8000 K).

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.

Crystal-Lock (When powered by DC): Internal crystal reference is standard on all models.

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

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 +50 °C (-4 °F to +122 °F).

Electromagnetic Compatibility

EMC Requirements:

PAL Models: CE, 89/336/EEC.

Immunity: EN50130-4.

Emission: EN50081-1 Class B.

NTSC Models: U.S.A. and Canada.

FCC Part 15, Class B.

ICES-003.

Safety:

PAL Models: CE.

NTSC 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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