LTC 0435 Series

Color Cameras

Security Systems



- 1/3-inch Format CCD Imager
- High Sensitivity
- Advanced Digital Signal
- Processing
- Standard Resolution
- Auto Detection of Lens Type
- Easy to Install
- Accepts AC or DC Voltages

The LTC 0435 series are compact rugged, 1/3-inch image format digital color CCD cameras. Their superior sensitivity and resolution provide optimal performance in virtually all environments.

This fully automatic camera is ready to work for you, and is easy to install in even the most demanding applications. On- screen Displays (OSD) provide quick and easy access to all camera features.
The LTC 0435 cameras also comes with a lens wizard that automatically detects the type of lens installed and provides an OSD guide that allows the installer to easily adjust the lens level and focus without special tools or filters.
The automatic black level feature, now introduced in color cameras, enhances contrast by removing veiling glare from the picture.

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

The ability to operate on AC or DC provides added flexibility to system designs and reduces the amount of training and support items to keep on-hand.

Easy Installation, digital signal processing, on screen displays, superior picture quality and reliability brings the video performance of standard resolution color cameras to a level never reached before and makes the LTC 0435 series the best choice for first time and professional users.

Bilinx Technology
The LTC0435 series cameras incorporate Bilinx. Bilinx is a bi-directional communication capability embedded in the video signal of all Bosch Dinion cameras. With Bilinx technicians can check status, change camera settings and even update firmware from virtually anywhere along the video cable. Bilinx reduces service and installation time, provides for more accurate set-up and adjustment, and improves overall performance. In addition, Bilinx uses the standard video cable to transmit alarm and status messages, providing superior performance without additional installation steps.

SPECIFICATIONS

Electrical

Model No.	Rated Voltage	Voltage Range	System
LTC 0435/10	12 VDC	10.8-39 VDC	PAL
	24 VAC, 50 Hz	12-28 VAC, 45-65 Hz	
LTC 0435/20	12 VDC	10.8-39 VDC	NTSC
	24 VAC, 60 Hz	12-28 VAC, 45-65 Hz	
LTC 0435/50	230 VAC, 50 Hz	85-265 VAC, 45-65 Hz	PAL
LTC 0435/60	120 VAC, 60 Hz	85-265 VAC, 45-65 Hz	NTSC

Power Consumption:	4 W, excluding lens.
Imager:	Interline transfer CCD, 1/3-inch image format.
Active Picture Elements:	
PAL Models:	500 H x 582 V.
NTSC Models:	510 H x 494 V.

Sensitivity (3200 k):

		Usable Picture (50 IRE)	Full Video
Scene illumination1)	fc	0.039	0.16
	lx	0.39	1.6
Imager illumination	fc	0.006	0.024
	lx	0.06	0.24

1) for f/1.2 lens, 89% scene reflectance.

Horizontal Resolution:	330 TVL.
Signal-to-noise Ratio:	50 dB.
AGC:	21 dB, (max).
Electronic Shutter:	
	Automatic, 1/50 to 1/125000 sec. (CCIR), 1/60 to 1/150000 sec. (EIA)
Aperture Correction:	Horizontal and vertical, symmetrical.
Backlight Compensation:	Center window weighting.
White Balance:	Automatic sensing (2500 - 9000 K).
Video Output:	Composite video 1.0 Vpp, 75 ohms.
Synchronization:	
Line-Lock:	(When powered by AC only) Synchronizes the camera to the power line zero crossing for roll-free vertical interval switching. Vertical phase delay can be adjusted (0 - 358 degrees) to allow vertical synchronization in multi-phase power installations
	Free Running (When DC-supply or L/L off): Internal crystal reference is standard on all models.

Controls	
	Video level.
	Shutter: AES/Off/Flickerless
	AGC: On/Off
	BLC: On/Off
	Auto Black: On/Off
	ATW: On/Hold
	R-offset
	B-offset
	Vphase Adjustment: 0 - 358 degrees

MECHANICAL

Connectors:	
- Video Output:	BNC.
- Video/DC-Iris connector:	4-pin EIA-J.
Power:	
	LTC 0435/10 and LTC 0435/20: push type connectors, polarity independent, isolated from video output terminals
	LTC 0435/50: 2-wire power cord with Euro plug
	LTC 0435/60: 2-wire power cord with polarized plug
Camera mounting:	Top and Bottom, 1/4-inch 20 UNC.
Lens mounting:	C and CS.
Dimensions:	(HxWxD*) 58 x 66 x 122 mm
	(2.28 x 2.6 x 4.8 inch). *including connectors.
Weight:	0.45 kg (0.99 lb).

ENVIRONMENTAL

Temperature range:	
Operating:	-20 to 50°C (-4 to 122 °F).
Storage:	-25 to 70°C (-13 to 158 °F).
Operating Humidity:	5% to 93% non-condensing.
Electromagnetic compatibility:	
EMC immunity:	According EN50130-4
EMC emission:	According EN505022 class B,
	According FCC, class B part 15
Safety:	
	LTC 0435/10 and LTC 0435/50: EN60065
	LTC 0435/20 and LTC 0435/60: UL6500
Accessories	
Lenses DC-Iris:	
LTC 3364/40:	2,8 - 12 mm, F1,4 - F360.
LTC 3374/20:	5 - 50 mm, F1,4 - F185.

Power Transformers and Power Supplies:

Model No.	Rated Input	Rated Output
TC1334	120 VAC, 60 Hz	24 VAC, 30 VA
TC120PS	120 VAC, 60 Hz	15 VDC, 9 VA
TC220PSX-24	220 - 240 VAC, 50/60 Hz	24 VAC, 20 VA
TC220PS	220 - 240 VAC, 50/60 Hz	15 VDC, 9 VA

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