



LTC 0356 Series Monochrome Cameras



- ▶ 1/3-inch format CCD imager with IR cut filter
- ▶ High sensitivity
- ▶ Advanced digital signal processing
- ▶ High resolution
- ▶ Auto detection of lens type
- ▶ Easy to install
- ▶ Accepts AC or DC voltages

The LTC 0356 series are compact rugged, 1/3-inch image format digital monochrome CCD cameras. Their superior sensitivity and high resolution, combined with the IR cut filter on the sensor, provides optimal performance in traffic applications. Easy Installation, digital signal processing, on screen displays, superior picture quality and reliability brings the video performance of high resolution monochrome cameras to a level never reached before.

The LTC 0356 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 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.

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.

Functions

Bilinx Technology

The LTC 0356 series cameras incorporate Bilinx. Bilinx is a bidirectional 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.

Certifications and Approvals

Electromagnetic Compatibility

EMC Immunity: According EN50130-4

EMC Emission: According EN505022 class B

According FCC, class B part 15

Safety

LTC 0356/10: EN60065

LTC 0356/20: UL6500

Parts Included

Quantity	Components
1	LTC 0356 Series Monochrome Camera
1	Spare male 4-pin lens connector
	Lens not included

Technical Specifications

Electrical

Model No.	Rated Voltage	Voltage Range	System
LTC 0356/10	12 VDC 24 VAC 50Hz	10.8-39 VDC 12-28 VAC 45-65 Hz	CCIR
LTC 0356/20	12 VDC 24 VAC 60Hz	10.8-39 VDC 12-28 VAC 45-65 Hz	EIA
Power Consumption	4 W, excluding lens		
Imager	Interline transfer CCD 1/3-inch image format, with IR cut filter		
Active Pixels			
LTC 0356/10:	752 H x 582 V		
LTC 0356/20:	582 H x 494 V		
Sensitivity (3200 k)			
	Usable Picture (50 IRE)	Full Video	
Scene Illumination ¹⁾	0.2 lux (0.02 fc)	0.9 lux (0.09 fc)	
Imager Illumination	0.05 lux (0.005 fc)	0.02 lux (0.02 fc)	
Horizontal Resolution	570 TVL		
Signal-to-Noise Ratio	50 dB		
Gain	Auto, 21 dB (max)		
Electronic Shutter	Automatic, 1/50 to 1/500000 sec. (LTC 0356/10), 1 / 60 to 1 / 600000 sec. (LTC 0356/20)		
Aperture Correction	Horizontal and vertical, symmetrical		
Backlight Compensation	Center window weighting		
Video Output	Composite video 1.0 Vpp, 75 ohm		
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.		
Crystal-Lock	(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		
	Vphase adjustment: 0 - 358 degrees		

¹⁾ For F/1.2, 89% scene reflectance.

Mechanical

Connectors	- Video output: BNC - Video/DC-Iris connector: 4-pin EIA-J
Power	Push type connectors, polarity independent, isolated from video output terminals
TripodMount	Top and bottom, 1/4-inch 20 UNC
LensMount	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

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-25°C to 70°C (-13°F to 158°F)
Operating Humidity	5% to 93% non-condensing

Ordering Information

LTC 0356/10 Monochrome Camera 1/3-inch B/W CCIR, DSP, 570 TVL, 12 VDC/ 24 VAC, 50 Hz, IR cut filter	LTC0356/10
LTC 0356/20 Monochrome Camera 1/3-inch B/W EIA, DSP, 570 TVL, 12 VDC/ 24 VAC, 60 Hz, IR cut filter	LTC0356/20

Accessories

LTC 3364/40 Varifocal Lens 1/3-inch, 2.8 – 12 mm, DC-iris, CS-mount F1.4-360, 4-pin	LTC3364/40
LTC 3374/20 Varifocal Lens 1/3-inch, 5 – 50 mm, DC-iris, CS-mount F1.4-185, 4-pin	LTC3374/20
TC 120PS Power Supply Unit 110-120 VAC/15 VDC, 50/60 Hz, 300mA	TC120PS
TC 220PS Power Supply Unit 230 VAC/12 VDC, 50 Hz, 10 VA	TC220PS
TC 220PSX-24 Power Supply Unit 230 VAC/20 VAC, 50 Hz, 20 VA	TC220PSX-24
TC 1334 Power Supply Unit 120 VAC/24 VAC, 60 Hz, 30 VA	TC1334

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