

TM-5LC SUPER MINI CYLINDRICAL CCD CAMERA





General Description

The PULNIX TM-5LC is an ultra miniature monochrome shutter camera with automatic electronic exposure control. Designed for self-contained miniature camera applications, the TM-5LC provides a low cost and robust solution for replacing remote head cameras. The TM-5LC has a built-in automatic shutter (Electronic Iris or Electronic Exposure control) to provide a wide dynamic range. The optics are designed for OEM applications and various types of lens mount are available as an option. Therefore, the TM-5LC is ideal for covert operation, robot vision, helmet cameras, pipe inspection, underwater cameras, microscopy, military applications, etc.

Electronic Shutter

The TM-5LC has a substrate drain type shutter mechanism which provides a superb picture at various speeds without smearing. With automatic shutter control, it varies from 1/60 sec. to 1/10,000 sec. to operate from less than 0.5 lux to bright day light conditions.

Optics

Various types of lens mounts are available as an option. The TM-5LC cylindrical enclosure has an M14 x 0.5 thread which is compatible with the Tamron aspherical lenses. Additionally, a C/CS-mount lens can be used with the optical adapters. The optics are designed for OEM applications.

New Product Summary

- Ultra Miniature Cylindrical CCD Camera
- Low light Sensitivity (0.5 lux)
- Automatic Electronic Shutter (1/60 to 1/10,000 sec)
- 1/4" CCD
- 20mm Dia and 47mm Long, Robust Design
- Optical Design for OEM Applications
- AGC on/off, Gamma 1 or 0.45
- Replaces Remote Head Cameras

Specifications

Imager 1/4" interline transfer CCD

 Pixel
 510 (H) x 492 (V)

 Cell size
 7.15 μ m x 5.55 μ m

Scanning 525 lines 60 Hz, 2:1 interlace

Sync Internal

HD=15.734kHz, VD=59.94 Hz

TV resolution $400 (H) \times 350 (V)$

S/N ratio 50dB min.

Min. illumination 0.5 lux f=1.4 without IR cut filter

Video output Analog: 1.0 Vp-p composite video, 75Ω

AGC ON/OFF (ON std.)

Gamma 0.45 or 1.0 (1.0 std.)

Lens mount M14X0.5 TAMRON, C/CS MOUNT

Power req. 12V DC, 120 mA Operating temp. -10°C to 50°C

Vibration & shock Vibration: 7 Grms @ 10-2000 Hz,

Shock: 70G

Size (D x L) 20mm Dia x 52.5mm

0.78" Dia x 2.0"

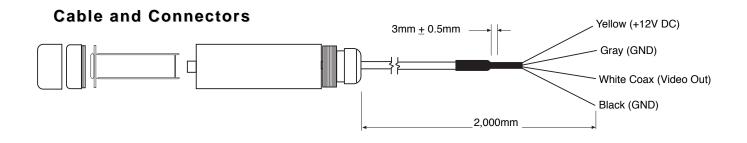
Weight 20.5g (without cable or lens)

Power cable Flying Leads
Power supply K25-12V or PD-12

Auto iris connector None Functional options TBD

Accessories C/CS-mount adapter (32-3663)





Physical Dimensions

