

ITM-M-SC-N

Miniature Video Camera



General Description

ITM-M-SC-N turns a complete video camera into a component of your product. ITM-M-SC-N, a CMOS type video camera, is specially designed for the cost sensitive consumer electronics application. ITM-M-SC-N offers the unique benefits such as a low power consumption, low cost, small size together with consistent image quality.

Features

- Small size 16 × 16 × 20 mm
- Lens..... f4.9mm
- 5V operation
- Low power consumption..... <100 mW
- Direct connect to standard video monitor
- Auto exposure control
- Back light compensation
- Gamma correction..... 0.45/1.0
- Auto gain control..... 18dB
- Auto black level calibration
- Improvement on anti-blooming and anti-smearing
- High IR sensitivity for night time application
- Auto level expanding
- Edge enhancement

Pin Description

- | | |
|--------|--|
| 1. GAM | Gamma disable pin, tie low for outdoor use |
| 2. GND | Power Supply Ground |
| 3. CVO | Composite Video Out, direct connect to monitor |
| 4. GND | |
| 5. VCC | Power Supply, DC5V ±0.5V |

Application Example

Visual Door Phone · Baby Monitor
Security and Surveillance System · Machine Vision
Process Control · Car Rear Viewer · Toys

Specification

Imager	1/4" CMOS imager sensor
Scanning	2:1 Interlace
Shutter	1/50 to 1/6000 sec
Video Output	1V p-p composite video (75Ω)
Picture Element	EIA: 320(H) × 240(V) CCIR: 352(H) × 288(V)
Effective image area	3.2mm × 2.5mm
S/N Ratio	>46dB (AGC on)
Min. Illumination	0,5Lux at F1.4
Resolution	260 TV line min
Operation Voltage	5 VDC ± 0.5V
Operating Current	10mA (no load)
Lens	f4.9mm F2.8 FOV 36° × 27°

Dimension [in mm] • Application

