



VISUAL

ITM-M-SR

Miniature Video Camera



General Description

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

Features

- Small size..... 21 x 21 x 15mm
- Lens..... f3.8mm or 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. CVO | Composite Video Out, direct connect to monitor |
| 2. GND | Power Supply Ground |
| 3. VCC | Power Supply, DC5V ±0.5V |
| 4. GAM | Turn off Gamma correction for outdoor application |
| 5. NC | |
| 6. NC | |

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) x 240(V) CCIR: 352(H) x 288(V) |
| Effective image area | 3.2mm x 2.5mm |
| S/N Ratio | >46dB (AGC on) |
| Resolution | 260 TV line min |
| Operation Voltage | 5 VDC ± 0.5V |
| Operating Current | 10mA (no load) |
| Lens | f4.9mm F2.8 FOV 56° x 42° f3.8mm F2.0 FOV 36° x 27.5° |

Dimension [in mm] • Application

