

IK-M51 SERIES



Introducing Toshiba's versatile, powerful new 1-CCD micro camera system with 1/2" and 1/3" CCD heads consisting of:

- IK-CU51 Camera Control Unit
- IK-M51H 1/2" 17mm dia. Camera
- IK-UM51H 1/3" 12mm dia. Camera

The system delivers excellent image resolution, while its compact dimensions provide for greater flexibility in mounting choices.

Broadcast, endoscopy, microscopy, diving, security, machine vision, aviation and education are just some of its many applications.

Features

- Compact, lightweight, easy to install
- Choice of 1/2" or 1/3" camera head
- 470 TV line resolution on both heads
- RS-232C allows PC Control of CCU
- 1/50 to 1/10,000 Sec. Electronic Shutter
- Excellent low-light performance
- Good range of lenses
- Special C-mount adaptor for 1/2"

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POLECAM

SPECIFICATIONS

| | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Power Supply | 12 V DC 0.5V (use AC-M601E for medical applications) |
| Power Consumption | 360 mA |
| Image Sensor | 1/2" (IK-M51H); 1/3" (IK-UM51H) |
| Effective Pixels | Horizontal: 752 Pixels, Vertical: 582 Pixels |
| Effective Image Area | H: 6.47mm, V: 4.83mm (1/2"); H: 4.89mm, V: 3.64mm (1/3") |
| Scanning System | 2:1 Interlace |
| Scan Frequency | Horizontal: 15.625 KHz, Vertical: 50Hz |
| Sync System | Internal/External (automatic switching) |
| Resolution | Horizontal: More than 470 lines, Vertical: More than 420 lines |
| Standard Intensity of Illumination for objects | 30 lx (F1.6, 3000K) |
| Minimum Intensity of Illumination for objects | 2.5lx (F1.6, 3000K) |
| S/N Ratio | 46dB or more |
| Video Output | VBS 1.0 V (p-p), (BNC terminal) PAL System Y/C separation output (S terminal) |
| Output Impedance | 75 ohms unbalanced |
| External Sync Input | VBS 1.0 V (p-p), (BNC terminal) PAL 75 Ohm unbalanced |
| Adjustment function | Subcarrier phase, H phase |
| White Balance | Automatic/set/manual |
| Gain Switch (AGC) | SENS UP (+6 dB)/ON/OFF |
| Electronic Shutter | Automatic, 1/50s, 1/100s, 1/250s, 1/500s, 1/1000s, 1/2000s, 1/4000s, 1/10000s, synchronized scan |
| Operating Temperature / Humidity | -10° C to +40° C (14°F to 104°F) / Less than 90% |
| Anti-vibration/shock Characteristics | 70 m/s ² (10 to 200 Hz) / 700 m/s ² |
| Weight (CCU) (Camera 1/2", 1/3") | 390g (0.86 lbs) 18g (0.6 oz) ; 10g (0.33 oz) |
| Dimensions (CCU body) (Camera 1/2", 1/3") | W: 85mm, H: 40mm, D: 156mm (W: 3.35", H: 1.57", D: 6.14") Length 38.9mm, Dia 17mm; Length 36mm, Dia 12mm |

| Lens IK-UM51h (1/3") | | |
|----------------------|-----------------------------------------|-------|
| Part No | Focal Length | F No. |
| JKL-03U | 3.0 | 2.0 |
| JKL-55U | 5.5 | 1.6 |
| JKL-11U | 11.0 | 2.0 |
| JKL-18U | 18.0 | 3.3 |
| Lens IK-UM51h (1/2") | | |
| Part No | Focal Length | F No. |
| JKL-03M | 3.0 | 2.0 |
| JKL-04M2 | 5.5 | 1.6 |
| JKL-7.5M | 11.0 | 2.0 |
| JKL-15M | 18.0 | 3.3 |
| JKL-24M2 | 24.0 | 3.1 |
| LA-002 | Special C Mount Adaptor (1/2") CCD Only | |

| Camera Cables | | |
|---------------|--------|----------|
| Part No | Length | Diameter |
| EXC-4302 | 2 | 5.0MM |
| EXC-4303 | 3 | 5.0MM |
| EXC-4305 | 5 | 5.0MM |
| EXC-4312 | 12 | 5.0MM |
| EXC-4320 | 20 | 5.0MM |
| EXC-4330 | 30* | 5.0MM |
| EXC-4354 | 54* | 5.0MM |

*IK-M51H Only

