

IK-M51 SERIES

POLECAM



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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Specifications

POLECAM



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