



## IK-M43S

**Model IK-M43S**  
**Toshiba's First Remote-Head CCD Color Camera System**  
**with Three Optional Camera Heads.**



■ **Toshiba's first remote-head CCD Color Camera System with three optional camera heads**

Toshiba's IK-M43S Camera System uses the latest 410,000 pixel CCD image sensors with advanced micro-lens technology. The Camera's CCU accepts 1/2 inch "Lipstick," 1/2 inch C-mount, and 1/4 inch Micro CCD camera heads.

- 470 line resolution from all Camera heads
- 7mm O.D. on 1/4 inch Micro Camera head
- Digital Signal Processing (DSP) enhances image quality
- RS-232 allows PC control of Camera's CCU
- 410,000 pixel CCD imager in all 1/2 inch and 1/4 inch Camera heads
- Auto-shutter mode controls light from 1/60 to 1/50,000 of a second
- Automatic tracking white balance
- Simultaneous Y/C and Composite Outputs
- Minimum illumination of 3 Lux on 1/2 inch camera heads and 10 Lux on 1/4 inch Camera heads
- Cable lengths of up to 30 meters on 1/2 inch Camera heads and 15 meters on 1/4 inch Camera heads

## IK-M43S Specifications

Image sensor	1/2 inch or 1/4 inch Interline Transfer CCD
Effective pixels	Horizontal: 768 pixels; Vertical: 494 pixels
Pixel Size	1/2 inch: 8.4 um x 9.8 um; 1/4 inch: 4.75 um x 5.55 um
Effective image area	1/2 inch: 6.54 x 4.89mm; 1/4 inch: 3.65 x 2.74mm
Scanning system	2:1 interlace
Scan frequency	Horizontal: 15.73 kHz; Vertical: 59.94 Hz
Sync system	Internal/External (automatic switching)
Resolution	Horizontal More than 470 lines; Vertical: More than 350 lines
Minimum illumination	1/2 inch: 3 lux (F1.2, Gain On, 30IRE) 1/4 inch: 10 lux (F1.2, Gain On, 30IRE)
S/N ratio	46 dB or more
Video output	VBS 1.0V(p-p), (BNC terminal) NTSC system Y/C separation output (S terminal)
Output impedance	75 ohms unbalanced
External sync: Input Adjustment function	VBS 1.0V(p-p) (BNC terminal) NTSC 75 ohms unbalanced Subcarrier phase, H phase
White balance	Automatic/set/manual
Gain switch (AGC)	SENS UP (+6 dB)/ON/OFF
Electronic shutter	Automatic, 1/60s, 1/100s, 1/250s, 1/500s, 1/1,000s, 1/2,000s, 1/4,000s, 1/10,000s, 1/50,000s, synchronized scan
Camera head cable length	1/2 inch (Cables optional): 2, 3, 5, 12, 20, and 30 meters 1/4 inch (Cables fixed): 3 or 15 meters
Operating temperature/humidity	14°F to 104°F (-10°C to +40°C)/Less than 90%
Anti-vibration/shock characteristics	70 m/s <sup>2</sup> (10 to 200 Hz)/700 m/s <sup>2</sup>
Power supply	DC12V±0.5V
Power consumption	310 mA
Weight	1/2 inch Lipstick Camera head: 18g 1/2 inch C-mount Camera head: 75g 1/4 inch Micro Camera head: 2.5g Camera Control Unit (CCU): 390g
Dimensions	1/2 inch Lipstick Camera head: dia: 17 mm, length: 38.9 mm 1/2 inch C-mount Camera head: W: 32 mm, H: 37 mm, D: 32 mm 1/4 inch Micro Camera head: dia: 7 mm, length: 42 mm Camera Control Unit (CCU): W: 85 mm, H: 40 mm, D: 156 mm
Optional lenses	1/2 inch Camera head: 2, 4, 7.5, 15 and 24 mm; 1/4 inch Camera head: 2.2, 4 and 8 mm
Optional Power Supply	ACM412 (with AC adaptor)

Designs and specifications are subject to change without notice.

For more information on this product, please contact

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