

➤ **TMC-73M/TMC-63M** Color Interlaced Scan CCD

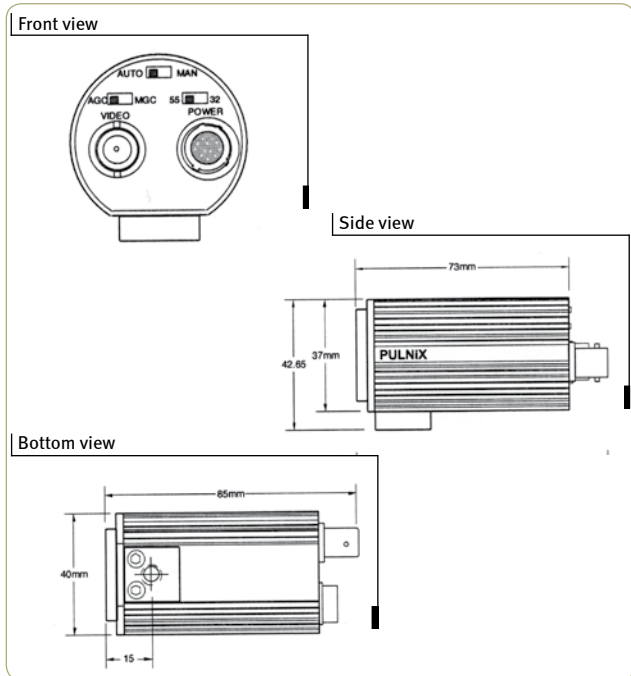


- *High efficiency 1/3" interline transfer CCD with micro lenses*
- *768H x 494V resolution (NTSC)*
- *752H x 582V resolution (PAL)*
- *Small size, rugged construction*
- *Shutter from 1/60 to 1/10,000 sec.*
- *Selectable white balance, auto-shutter and AGC*
- *External adjustments for gain, hue, chroma, and other functions*
- *Low light sensitivity of 5 lux at f/1.4*
- *OEM boardsets available*

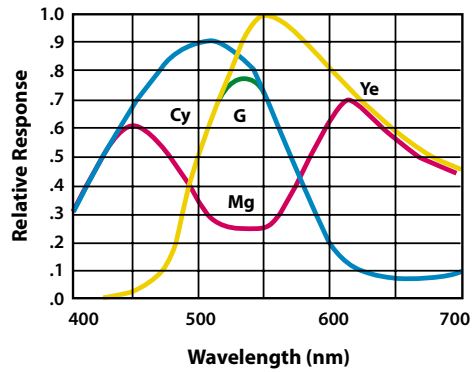
Specifications for TMC-73M/TMC-63M

Specifications	TMC-73M	TMC-63M
Sensor	1/3" interlaced scan IT CCD	
	ICX408AK-6	ICX409AK-6
Active pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
Cell size	6.35 μ m x 7.4 μ m	7.35 μ m x 7.4 μ m
Color filter	Cy, Ye, Mg, G complementary color filter	
Scanning	2.1 interlace, field mode scanning	
	525 lines, 59.54 Hz	625 lines, 50 Hz
Synchronization	Internal sync only	
	fH=15.734 KHz fV=59.95 Hz	fH=15.625 KHz fV=50.00 Hz
TV resolution	460 (H) x 400 (V) TVL	450 (H) x 450 (V) TVL
S/N ratio	>50 dB (AGC off)	
Sensitivity	5.0 lux f=1.4 (AGC ON)	
Video output	VBS= 1.0 Vp-p at 75 Ω (NTSC & PAL) Y=1.0 Vp-p with sync, C= 285 mV at 75 Ω	
Color balance	Manual white balance (selectable)	
AGC	Max. 32 dB AGC, on-off switchable, manual gain control	
Gamma	0.45	
Lens mount	CS-mount	
Power	12V DC, 190 mA	
Auto Iris connector	Internal wiring only, galvanometric iris driver and iris video output	
Operating temperature	-10° C to 50° C (-30° C to +65° C extended temp optional)	
Vibration	7 Grms (10 Hz to 2000 Hz) Random	
Shock	70 G, 11 ms, half-sine	
Dimensions	40 mm dia. x 73 mm	
Weight	120 g (without tripod)	

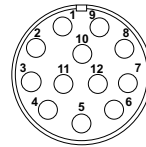
Dimensions



Spectral Response



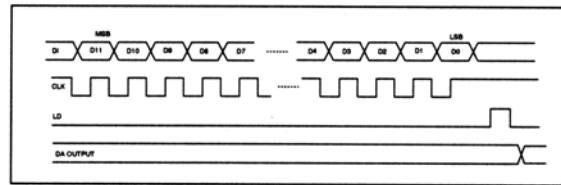
Connector Pin-out



12-Pin Connector

- | | |
|--------------------|------------------------|
| 1 GND | 7 Chroma out (Data in) |
| 2 +12V in | 8 N/C (Load in) |
| 3 GND | 9 Y out (CLK in) |
| 4 Video out (VBS) | 10 Do |
| 5 N/C (Ext. Cont.) | 11 D1 |
| 6 Atuo/Man | 12 D2 |

Switches



Switches

Auto/MAN ... Auto-shutter on/off switch. Manual control by Do, D1, D2
AGC/MGC ... AGC on/off switch. Manual control by serial input 55/32 White balance at 5500°K/3200°K

External control mode (optional)

12 bit serial D/A is built-in. It controls 8 bits of data and 4 bits of address for 1. Manual Gain, 2. Iris level control for galvanometric lens, 3. Chroma level, 4. R-Y hue control, 5. B-Y hue control, 6. Spare for Ext. control mode. Set EXT cont (#%) to Low and apply serial data. Clock and Load to #7, 8 and 9 pins. Consult JAI for details.

Ordering Information

Camera

Lead Processing	TMC-73M (NTSC), TMC-63M (PAL)
RoHS Compliant	RMC-73M (NTSC), RMC-63M (PAL)

Optional Accessories (MUST BE ORDERED SEPARATELY)

Power Supply	12VDC, 300mA
Power Cable	12P-02 for NTSC/PAL and Y/C KC-10 for NTSC/PAL only

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