



CV-M530/M531

Remote Head Monochrome CCD Camera



- *High resolution monochrome 1/2" Hyper HAD IT CCD sensor*
- *CCIR: 752 (h) x 582 (v) pixels. EIA: 768 (h) x 494 (v) pixels*
- *Remote head ø28. C-mount. 0.5 m or 2 m cable lengths*
- *Improved dynamic range and smear performance*
- *Extreme sensitivity. High S/N ratio >56 dB*
- *Interlaced or non-interlaced scanning*
- *Field or frame integration mode*
- *Electronic shutter or asynchronous trigger shutter*
- *Continuous variable shutter in trigger mode 2*
- *Long time integration with external VD pulses*
- *HD/VD synchronization input or output – 75 Ohm or TTL level*
- *Exposure Enable (EEN) and Write Enable (WEN) output*
- *Sub-pixel accuracy possible*
- *Frame grabber friendly interface*
- *Camera functions and housing identical with CV-M50*

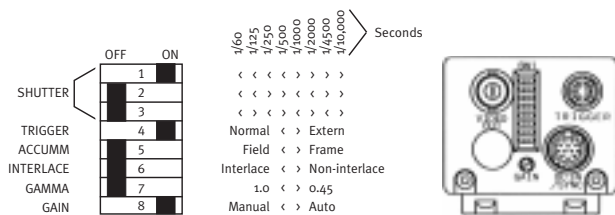
The leading manufacturer in high performance camera solutions

Specifications for CV-M530/M531

Specifications	CV-M530/M531C	CV-M530/M531E
Scanning system	625 lines, 25 frames	525 lines, 30 frames
CCD sensor	Monochrome 1/2" Hyper HAD IT CCD	
Sensing area for video	6.6 mm (h) x 4.8 mm (v)	
Picture elements effective	752 (h) x 582 (v)	768 (h) x 494 (v)
Elements in video out	737 (h) x 572 (v)	758 (h) x 484 (v)
Cell size	8.6 (h) x 8.3 (v) μm	8.4 (h) x 9.8 (v) μm
Resolution (horizontal)	560 TV lines	570 TV lines
Resolution (vertical)	570 TV lines	485 TV lines
Sensitivity	0.5 Lux, F1.4	
S/N ratio	>56 dB (ACG off, Gamma 1)	
Video output	Composite VBS signal 1.0 Vpp, 75 Ohm	
Gamma	0.45 - 1.0	
Gain	Manual - automatic. 0 to +15 dB	
Scanning	2:1 interlace - non-interlace	
Accumulation	Field - frame	
Synchronization	Int. X-tal. Ext. HD/VD or random trig.	
HD sync. input/output	4V, 75 Ohm*	
VD sync. input/output	4V, 75 Ohm*	
Trigger input	4V, 75 Ohm*	
WEN out (Write Enable)	4V, 75 Ohm	
EEN out (Exposure Enable)	4V, 75 Ohm	
Pixel clock output (optional)	4V, 75 Ohm, sine	
Internal shutter	Off, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4500, 1/10,000 sec.	
Trigger shutter	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4500, 1/10,000 sec.	
Ext. continuous variable shutter	1/77 to 1/10,000 sec. (trigger mode 2)	
Long time exposure	1 field to ∞ (Ext. VD pulse interval)	
Operating temperature	-5°C to +45°C	
Humidity	20 - 80% non-condensing	
Storage temp./humidity	-25°C to 60°C/20 - 80%	
Power	12V DC $\pm 10\%$, 3.5W (M530), 3.7W (M531)	
Dimensions (control unit)	40 x 50 x 80 mm (HxWxD)	
Weight (control unit)	210 g	
Dimensions (camera head)	$\varnothing 28$ x 49 mm	
Connector for camera head	$\varnothing 17$ mm	
Lens mount	C-mount	
Weight (camera head)	50 g	

* HD sync., VD sync./(Trigger) in or out by internal straps. Inputs TTL or 75 Ohm terminated by internal straps.

Switch Setting

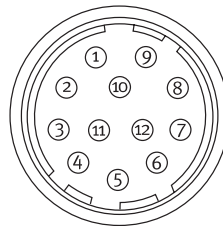


Ordering Information

CV-M530C 1/2" Monochrome Remote Head Camera CCIR 0.5 m Cable
 CV-M530E 1/2" Monochrome Remote Head Camera EIA 0.5 m Cable
 CV-M531C 1/2" Monochrome Remote Head Camera CCIR 2 m Cable
 CV-M531E 1/2" Monochrome Remote Head Camera EIA 2 m Cable

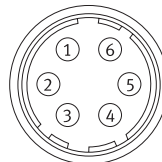
Connection Description

DC-IN/SYNC.



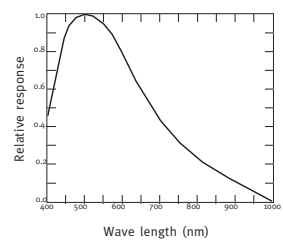
- Pin 1 Ground
 2 +12V DC
 3 Ground
 4 Video output
 5 Ground
 6 HD in/(HD out)
 7 VD in/VD out
 8 Ground
 9 N.C./Pixel clock out
 10 Ground
 11 +12V DC
 12 Ground

TRIGGER



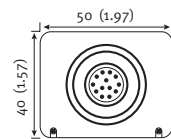
- Pin 1 N.C.
 2 EEN output
 3 Ground
 4 N.C.
 5 Trig. input
 6 WEN pulse output

Spectral Sensitivity

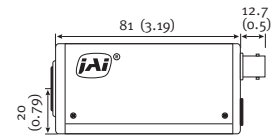


Dimensions

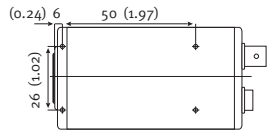
Front view



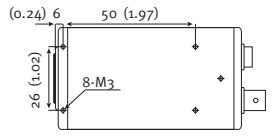
Side view



Bottom view

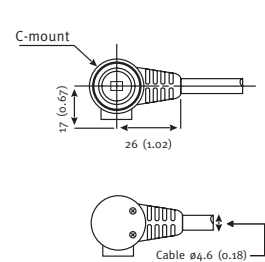


Top view



Camera Head Dimensions

Camera head for CV-M530/M531



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