



CV-M30

Monochrome Double Speed Camera



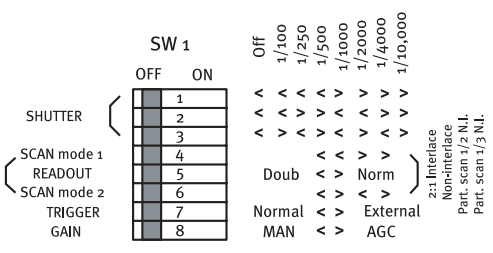
- *1/2" monochrome CCD camera*
- *768 (h) x 494 (v) pixels in interlaced mode*
- *Double speed scanning, 31.5 kHz*
- *Interlaced or non-interlaced scanning*
- *60 interlaced frames per second*
- *120 fields per second in non-interlaced mode*
- *Partial scanning 1/2 or 1/3 for rates up to 240 or 360 fields per second*
- *Internal, external HD/VD or random trigger synchronization*
- *Shutter speeds from 1/120 to 1/20,000 second*
- *Edge pre-select and pulse width external trigger modes*
- *Exposure enable EEN and write enable WEN output*
- *Easy setup by switches*
- *Compact housing with C-mount*

The leading manufacturer of high performance camera solutions

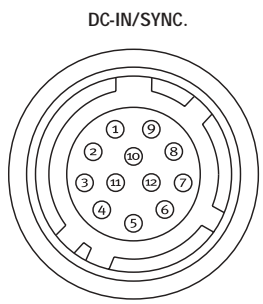
Specifications for CV-M30

Specifications	CV-M30
Scanning system	2:1 interlaced 525 lines 60 frames/sec. Non-interlaced 262 lines 120 frames/sec.
Pixel clock	28.7 MHz
Line frequency	31.468 kHz
Clock pulses per line	912
CCD sensor	1/2" monochrome IT CCD
Sensing area	6.4 (h) x 4.8 (v) mm
Cell size	8.4 (h) x 9.8 (v) μm
Effective pixels	768 (h) x 494 (v)
Pixels in video output	
2:1 interlaced	756 (h) x 485 (v) 60 frames/sec.
Non-interlaced	756 (h) x 242 (v) 120 field/sec.
1/2 partial	756 (h) x 111 (v) 240 fields/sec.
1/3 partial	756 (h) x 67 (v) 360 fields/sec.
Sensitivity on sensor	0.1 Lux (Max gain, 50% video)
S/N ratio	>58 dB
Video output	Composite 1.0 Vpp, 75 Ω
Gamma	0.45 - 1.0
Gain	Manual - Automatic
Gain range	-3 to +12 dB
Synchronization	Int. X-tal. Ext. VD/HD, Random trigger
Trigger, VD, HD input	4 V ± 2 V TTL, or 75 Ω terminated
WEN, EEN output	4 Vpp from 75 Ω
Trigger modes	Continuous, Edge pre-select, Pulse width control
Trigger input	In edge pre-select >1H In pulse width >1H to ≤1field
Shutter speed	Off (1/120), 1/200, 1/500, 1/1000, 1/2000, 1/4000, 1/9000, 1/20,000 sec.
Pulse width control	>2 H to ≤1 field. (>80 μsec. to ≤9 msec.)
Camera setup by switches on rear	Shutter, Scanning, Read out, Trigger, Gain
Internal settings	Trigger mode, Gamma, VD/HD termination
Operating temp./humidity	-5°C to +45°C/ 20 - 80% (non-condensed)
Storage temp./humidity	-25°C to +60°C/ 20 - 90% (non-condensed)
Power	12V DC ± 10%. 3.8 W
Lens mount	C-mount
Dimensions	40 x 50 x 80 mm (HxWxD)
Weight	240g

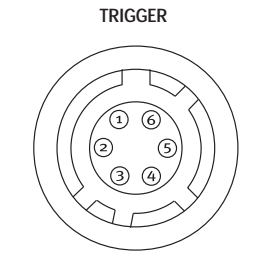
Switch Setting



Connection Description



- HIROSE HR10A-10R-12P
- Pin 1 Ground
 - Pin 2 +12V DC
 - Pin 3 Ground
 - Pin 4 Video output
 - Pin 5 Ground
 - Pin 6 HD input
 - Pin 7 VD input/Trigger input *
 - Pin 8 Ground
 - Pin 9 WEN/EEN output *
 - Pin 10 Ground
 - Pin 11 +12V DC
 - Pin 12 Ground

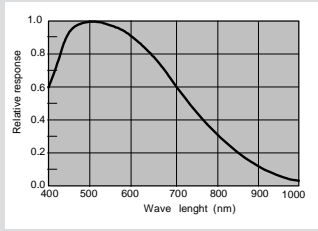


- HIROSE HR10A-7R-6P
- Pin 1 N.C.
 - Pin 2 EEN output
 - Pin 3 Ground
 - Pin 4 N.C.
 - Pin 5 VD/Trigger input *
 - Pin 6 WEN output

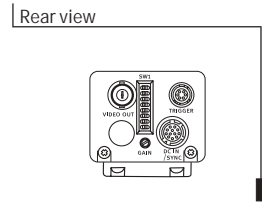
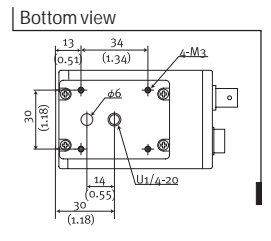
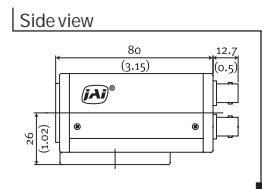
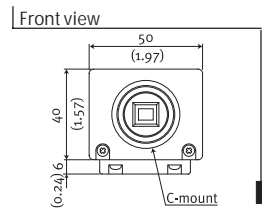
* Signals can be changed by internal switches and jumpers.

Plugs for cable:
12 pin: HIROSE HR10A-10P-12S
6 pin: HIROSE HR10A-7P-6S

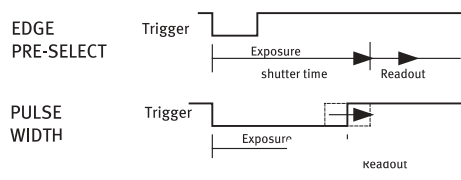
Spectral Sensitivity



Dimensions



Trigger Modes



Ordering Information

CV-M30 1/2" Monochrome Double Speed Camera



THE MECHAEMIC COMPANY