

# IC-M29S-CL

29MP ◇ 6576 x 4384 ◇ CCD ◇ 4.45 fps



## *HIGH-SPEED HIGH-RESOLUTION CAMERA TECHNOLOGY*

- ◇ 29 MP High-Performance CCD
- ◇ Global Shutter
- ◇ Flat Field Correction, Programmable
- ◇ Defect Pixel Correction, Programmable
- ◇ H&V ROI, Programmable
- ◇ 2 x 2 and 4 x 4 Binning
- ◇ 2 User Areas for Configuration Recall
- ◇ User LUT Upload and 2 Saving Areas
- ◇ Free-Run, Trigger Master / Slave, Overlap
- ◇ 6576 x 4384 Pixels
- ◇ 4.45 fps
- ◇ 5.5  $\mu\text{m}^2$  pixel size
- ◇ 8-bit, 10-bit & 12-bit Output
- ◇ 2-Tap Base Camera Link
- ◇ Monochrome
- ◇ Compact Size - 75 x 75 x 43.4 mm
- ◇ F-Mount, M72, M58, LM Lens Mount
- ◇ High-Precision Mounted Sensor

[www.isvi-corp.com](http://www.isvi-corp.com)

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# IC-M29S-CL

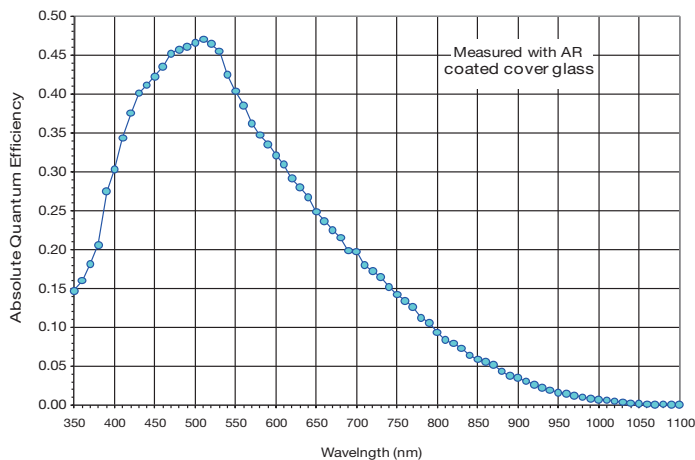


## SPECIFICATIONS

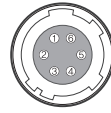
Sensor	High-Sensitivity, Low-Noise CCD, Onsemi KAI-29050
Resolution	6576(H) x 4384(V) Active Pixels
Pixel Area Size	5.5µm(H) x 5.5µm(V)
Frame Rate	4.45Hz Full Frame (224.7 msec)
Active Area Size	Diameter : 43.7mm, 36.17mm(H) x 24.11mm(V), 35mm Optical Format
Output Format	8/10/12-bit Monochrome
CL Interface	2 Tap Base Configuration, Single Cable
Dynamic Range	64dB
Full Well Capacity	20000 e <sup>-</sup>
SNR	> 55dB
Sensitivity	34 uV/e <sup>-</sup>
Acquisition Control	Free Run - Trigger Master - Trigger Slave - Overlap Mode
Exposure Control	Programmable from 100 µsec to 7 sec in 100 µsec steps
Analog Control	Gain & Black Offset Level 0 - 700, 0.035dB Steps
Digital Control	Gamma, Programmable and Download / Upload LUT
Image Control	Flat Field Correction, Defect Pixel Correction
Special Functions	User Flat Field Correction (FFC) calibration saving User Defect Pixel Correction (DPC) calibration saving User Programmable H&V Region of Interest (ROI) Binning 2x2 and 4x4
Lens Mounts	F-Mount, M72, M58, LM(Leica M), Custom OEM
Operating Temperature	0°C to +40°C, ext. temp. possible with reduced performance
Storage Temperature	-10°C to +70°C
Relative Humidity	20% - 90% non-condensing
Shock / Vibration	25G (Half sine 6-10ms XYZ) / 10G (5-150Hz, 1min, XYZ)
MTBF	> 78,500 h
Power Requirements	12VDC ± 10%, 14.4W, ≤ 50mV Ripple
Dimensions	75mm x 75mm x 43.4mm without lens mount and connectors
Weight	460g (without lens mount), 600g (included F-Mount)
Compliance	Camera Link v2.0, RoHS, CE, FCC

All specifications subject to change without notice. Please visit our website for the latest documentation.

## SPECTRAL RESPONSE



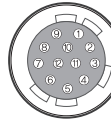
## CONNECTORS



### Power Connector

PIN No.	I/O	Signal Name
1, 2, 3	VCC	+12VDC
4, 5, 6	GND	Ground

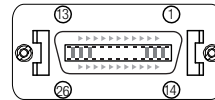
◊ Connector: Hirose HR10A-7R-6P ◊ Mating Connector: Hirose HR10A-7P-6S



### Control Connector

PIN No.	I/O	Signal Name	PIN No.	I/O	Signal Name
1	Input	+Trigger	3	Output	+Strobe
2	Input	-Trigger	5	GND	Ground
4, 6 - 12	Reserved - Do Not Connect				

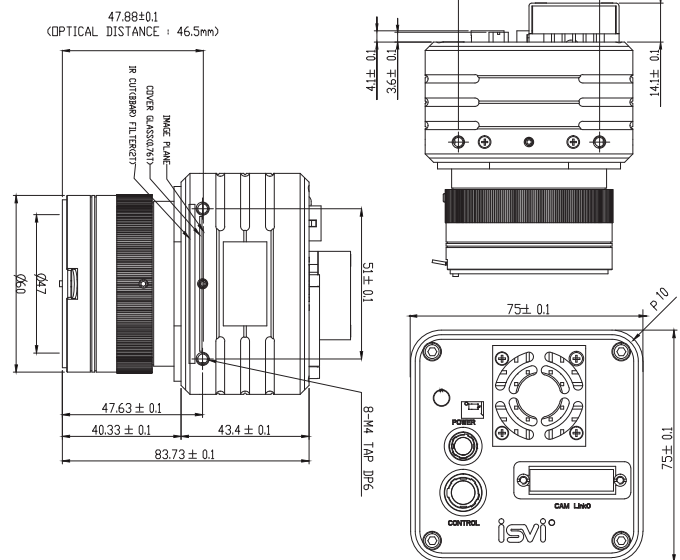
◊ Connector: Hirose HR10A-10R-12S ◊ Mating Connector: Hirose HR10A-10P-12P



MDR-26 Camera Receptacle with clip and thumb screw mounting.

## DIMENSIONS

< F Mount >



## ORDERING

IC-M29S-CL-XX

FM = F-Mount  
58 = M58x0.75  
72 = M72x0.75  
LM = Leica - M

Lens Mount\*\*

B = BBAR\*  
I = IR-Cut  
N = None

Filter\*\*

\* Monochrome standard with BBAR filter

\*\* Custom OEM available

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