

# High-Speed, High-Resolution Industrial Camera Technology

**IC-M29N-CL**  
(Previous IC-M29)

**IC-M29S-CL**  
(NEW Compact "S" Model)

29MP @ 4.5 FPS, CCD



- 29 Mega Pixel CCD Sensor
- Resolution 6576 x 4384
- High S/N Ratio Over 55 dB
- Flat Field Correction
- Dead Pixel Correction
- True 8/10/12 Bit Data Output
- High Sensitivity 34  $\mu\text{V}/\text{e}^-$
- High Dynamic Range 64 dB
- F / M58 / M72 / LM-Mount
- 75mm x 75mm Compact Size

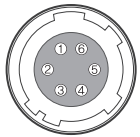
# Specifications

Sensor	29 Mega Pixel Monochrome CCD Sensor ( Global Shutter )
Resolution	6576 x 4384
Pixel Size	5.5µm x 5.5µm
Frame Rate	4.5 fps @ 2 Tap Base mode
Sensor Size	Diameter 43.47mm, 35mm
Video Output	8 / 10 / 12 Bit, Monochrome
Output Format	Camera Link 2 Tap Base
Sensitivity	34 uV/e-
S/N Ratio	> 55 dB
Dynamic Range	64 dB
Gamma/Knee	Fixed 0.45 or 4096 Point LUT
Full Well Capacity	20000 e-
Shutter Speed	> 100µs
Lens Mount	F-Mount, M58, M72, LM(Leica M), Custom OEM
Exposure Control	Programmable from 100us to 7sec in 100us step
External Power Supply Voltage	12 VDC ± 10%, 15W
Dimensions	IC-M29N-CL - 97mm (L) x 97mm (W) x 48mm (H) / IC-M29S-CL - 75mm (L) x 75mm (W) x 43.4mm (H)
Weight	IC-M29N-CL - 860g / IC-M29S-CL - 460g (without lens mount)
Image Control	Flat Field Correction, Dead Pixel Correction, Programmable Region of Interest
Temperature	Operating 0°C ~ 40°C, Storage 0°C ~ 70°C

\* All specifications subject to change without notice.

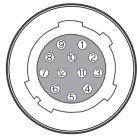
# Connector

Power			
Pin No.	I/O	Signal Name	
1	DC	+12V	
2	DC	+12V	
3	DC	+12V	
4	GND	GROUND	
5	GND	GROUND	
6	GND	GROUND	



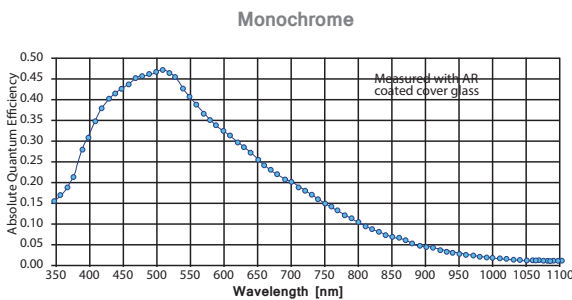
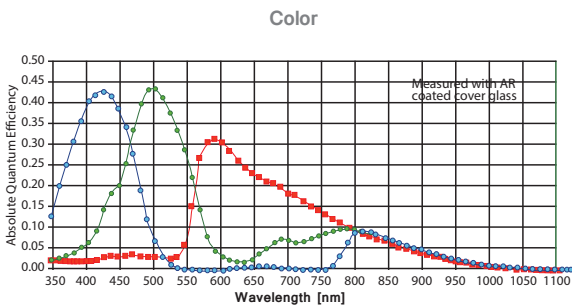
Mating Connector : Female (part#HR10A-7P-65)

Control					
Pin No.	I/O	Signal Name	Pin No.	I/O	Signal Name
1	INPUT	TRIGGER +	7	OUTPUT	RESERVED
2	INPUT	GROUND	8	INPUT	RESERVED
3	OUTPUT	STROBE OUTPUT	9	INPUT	RESERVED
4	INPUT	RESERVED	10	OUTPUT	RESERVED
5	GND	GROUND	11	INPUT	RESERVED
6	INPUT	RESERVED	12	INPUT	RESERVED

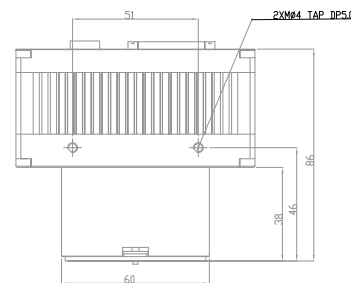
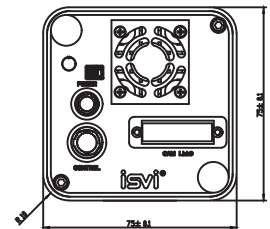
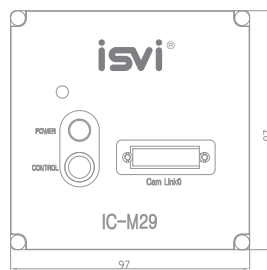


Mating Connector : Male (part#HR10A-10P-12P)

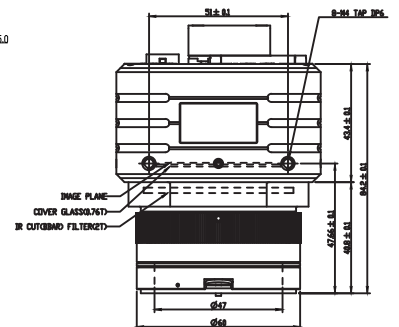
# Spectral Response



# Dimensions (F-Mount)



IC-M29N-CL(Previous IC-M29)



IC-M29S-CL(NEW Compact "S" Model)

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