



SW-16001M-MCL

High performance line scan camera

■ 2 x 16384 pixels

■ 50 kHz

Sweep Series 



Preliminary Version



- *High-performance monochrome line scan camera with CameraLink interface*
- *2 x 16384 pixel output up to 50kHz*
- *57.344mm wide sensor with 3.5 μ m square pixels*
- *CameraLink interface with CL pixel clock 40, 66, 80, and 85MHz*
- *Supports ROI, horizontal binning, and horizontal image flip*
- *Video output: 8/10/12-bit*
- *Gain control includes digital gain, and digital shift*
- *IPS: FFC, black level control, gamma, and LUT with preset options*
- *Supports 2-Step TDI (Time Delayed Integration)*
- *Supports the counter controls for monitoring trigger and signal events*
- *Lens mount: M72*



Specifications for SW-16001M-MCL

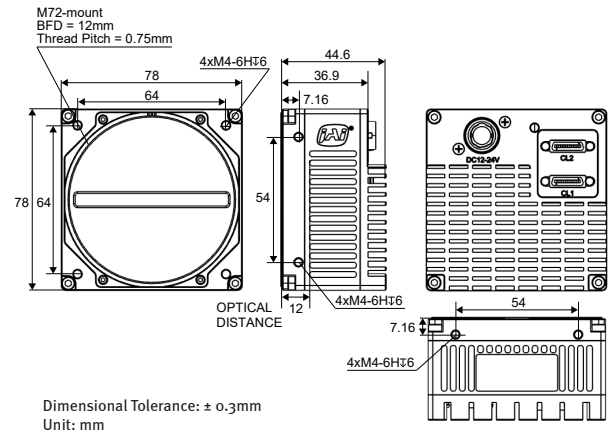
Sweep Series

Specifications

SW-16001M-MCL

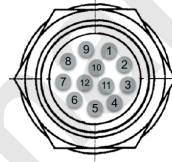
Scanning system	Monochrome CMOS line scan (global shutter)
Effective Pixels	2 x 16384
Line rate	Up to 50kHz (Mono8/EightyBit)
Sensor width	57.344mm
Pixel size	3.5 μ m x 3.5 μ m
Interface	CameraLink (v2.0), 2 x Mini CameraLink connector
CL Pixel Clock (MHz)	40, 66, 80, 85
Video output	Configuration: Base, Eighty Bit (Deca) Mono8, Mono10, Mono10p, Mono12p
Gain	Digital Gain (x0.1 to x15.9) Digital Shift (x1, x2, x4, x8, x16)
2-Step TDI	Sum, Average
Binning	Horizontal Binning (Sum, Average)
Trigger source	CC1, CC2, CC3, CC4
Trigger options	LineTriggerPreDivider, LineTriggerMultiplier, LineTriggerPostDivider
Exposure Mode	Timed, TriggerWidth
Exposure Time	3.1 μ s ~ 4.997 ms Exposure time can be longer at slower line rates.
Pulse width control	3.1 μ s ~ 4.997 ms
IPS (Image processing settings)	FFC (FNC/PRNU), Black level
Gamma	0.1 to 7.0
LUT	1 user-defined (0 to 4095), 3 preset options
Lens mount	M72 x 0.75mm (BFD: 12mm)
Operating temp. (ambient)	0°C to +45°C (20 to 80% non-condensing)
Storage temp. (ambient)	-25°C to +60°C (20 to 80% non-condensing)
Vibration	10G (20 Hz to 200 Hz, XYZ directions)
Shock	80G
Regulations	EN 55032:2015+A1+A11, EN 55035:2017+A11, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, FCC Part 15 Subpart A, RoHS, KC
Power supply	12-pin: 12 to 24V DC +/-15% PoCL: not supported
Power consumption	TBDW Max @ 24V DC
Dimensions (H x W x D)	78mm x 78 mm x 44.6 mm
Weight	360 g (TBD)

Dimensions



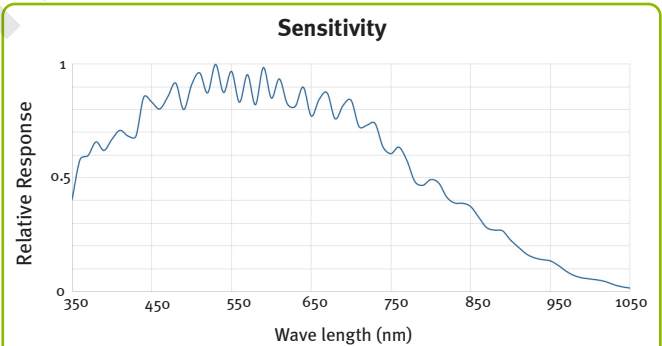
Connector pin-out

12-pin Connector (Power) HR-10A-10R-12PB (71)



Pin	1	Ground
	2	DC in +12V to +24V
	3 to 12	Disabled

Spectral Response



Ordering Information

SW-16001M-MCL-M72	16K High performance monochrome line scan camera
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