LineX LXM Series CIS



01 Product Model

INS-LXM-490-10GM-18L

CIS line-scan camera · Monochrome · 10GigE port · Integrated design

02 Typical Applications

Battery separator surface inspection; electrode sheet surface inspection; print inspection; print guidance and positioning; fabric inspection; electronic component inspection; display surface inspection; wood surface inspection; leather surface inspection; and other applications.

03 Key Features

- All-in-one design integrating the camera, light source, and lens
- 1:1 imaging without distortion from conventional lenses
- Short working distance for use in confined spaces
- Multiple scan widths available, with no multi-camera image stitching required
- 10GigE copper Ethernet interface supporting transmission distances of up to 30 m
- Compliant with the GigE Vision V2.0 standard
- Supports Windows 7/10 (32-bit and 64-bit), Windows 11 (64-bit), and Linux (64-bit)
- Provides SDK libraries for C, C++, and C#
- InsWorks ACI image acquisition software for CIS cameras

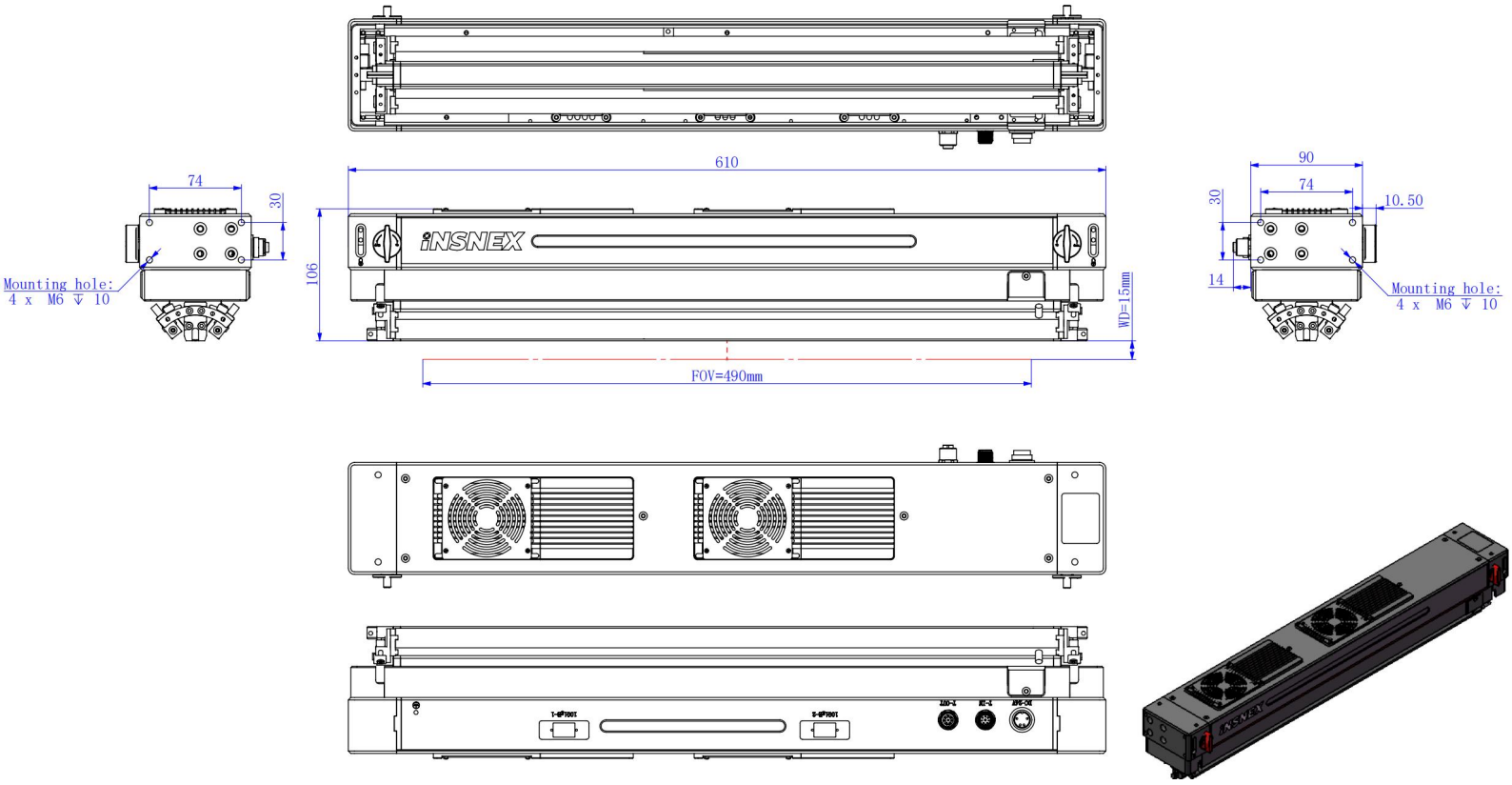
04 Standard BOM

- 10GigE dual-port frame grabber: INS-FG-EXGV2-S-2, 1 pc.
- Cable (5 m power cable), straight connector: INS-WIRE-M16-A-S4-5M, 1 pc.
- Cable (5 m trigger input cable), straight connector: INS-WIRE-M12-A1-S8-5M-PUR, 1 pc.
- Cable (5 m Ethernet cable), straight connector: INS-WIRE-LKK-10GE-S-RJ45-RJ45-H-05, 2 pcs.
- Calibration target: INS-LXM-490-10GM-18L-BD, 1 pc.

NOTE: Optional accessories can be ordered separately based on the application. Contact your sales engineer or technical support for model and specification details.

Parameter Category	Parameter	Value
Performance Specifications	Sensor Type	CMOS
	Field of View	490 mm
	Image Mode	Monochrome
	Resolution (μm/pixel)	14μm
	Resolution (DPI)	1800DPI
	Pixels per Line	35000
	Maximum Line Rate	40kHz
	Transmission Interface	10GigE
	Dynamic Range	67.7 dB
	Signal-to-Noise Ratio	48.4 dB
	Working Distance	15 mm
	Depth of Field (DOF)	±1.3mm
	Gain	1.0 x
	Exposure Time	4.5 μs ~ 17 s
Functional Specifications	Shutter Mode	Auto Exposure
	Pixel Format	Mono 8
	Image Flip	Supports horizontal flip
	Trigger Mode	External trigger, internal trigger
	External Trigger Mode	Line trigger, frame trigger, hybrid trigger
Electrical Specifications	Data Interface	10GigE*2
	Digital I/O Connectors	CAM_PWR: 4-pin camera power connector; I/O: 8-pin M12 signal connector
	Supply Voltage	Camera: 24 VDC; light source: 24 VDC
	Typical Power Consumption	Camera: 96 W @ 24 VDC; light source (continuous illumination): 72 W @ 24 VDC
Mechanical Specifications	Dimensions	Including light source: 610 mm × 90 mm × 106 mm (camera body dimensions exclude the focus adjustment mechanism and connector length)
	Weight	Approx. 5.2 kg
	Ingress Protection Rating	IP54 (with the lens and cables properly installed)
	Operating Temperature	0~40°C
	Storage Temperature	-30~80°C
	Operating Humidity	5%–90% RH, non-condensing
General Specifications	Software	InsWorks ACI
	Supported Operating Systems	Windows 7/10 (32-bit and 64-bit), Windows 11 (64-bit), and Linux (64-bit)
	Communication Protocol	GigE Vision 2.0
	Certifications	CE、FCC、RoHS

Dimensions



CONTACT US

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