

cometMX-180

edgeAI Perception Camera

Boost safety and efficiency in your fleet using Black Moth's cometMX-180. Get real-time insights directly from your vehicles.

Series Overview

The cometMX-180 series is at the forefront of next-generation, rugged vehicle vision technology. Equipped with a state-of-the-art multi-core AI processor, each unit in the series enables immediate on-board image processing and video streaming. When integrated into a multi-camera system, every camera operates autonomously, ensuring rapid response times for early and predictable detection of impending risks. Whether its for Driver, Remote, or Autonomous applications the cometMX-180 has you covered.

Series Features

- AI inferencing capabilities
- Odometry Capabilities
- Deutsch DT Connector for field servibaility
- 10/100 PoE+ communications
- Multi-stream capable
- Onboard De-warp
- API Controllable**
- USB-C for HMI, data capture
- Direct Display connectivity
- Lens management mounts

Applications

- On and Off-road Applications
- 360 Vision Systems
- Light and Heavy Vehicles
- Remote Machine Monitoring
- Post Incident Investigation
- Infrastructure Monitoring
- Mirror Replacement**
- Object Detection on Edge**
- Rear View System**
- Hybrid AI Inferencing**
- Near-field Depth Perception [D]**
- VMS Integration*

*Onvif, Milestone and Genetec interoperability available Q1'24

**Black Moth Proprietary Solutions Available under Software License. Annual Site Software, Support and AI Model development Licenses available for fleets.

Design, Built & Supported

Australian Owned Technology

Technical Specifications

cometMX-180 Series Family	cometMX-180A : Mono, cometMX-180B : Mono, DVR[128GB], cometMX-180C : Stereo, cometMX-180D : Stereo, DVR[128GB]
Field of View	187° Horizontal, 187° Vertical (non-cropped)
Sensor 1 [A,B,C,D]	Automotive grade CMOS sensor AEC-Q100 grade 2 qualified
Sensor 2 [C,D]	Automotive grade CMOS sensor, AEC-Q100 grade 2 qualified
FPS	30 fps (fully adjustable), bitrate, quality adjustable for remote and storage
Storage [B,D]	128GB (internal)
Image Compression	H.264, H.265*, MJPEG*
Network Interface	10Base-TX, 100Base-TX (4-wire), UDP
Power	PoE+ PD - 802.3at (Mode A)
Computer Vision	AI inferencing, Odometry, on-board Dewarp (rectilinear, cylindrical, and others upon request)**
Image Sensor Baseline	57mm
Certifications	ISO EN13766-1 CISPR32 Class B, ISO16750-2,-3, 240H Salt Spray
Ingress Protection	IP69K, IP67 (with USB-C cover plate removed)
Shock and Vibe	14g - EN 60068-2-27 - ISO16750-3
Operating Temperature	-40°C - +75°C Ambient (-40°F to +167°F)
Storage Temperature	-40°C - +85°C Ambient (-40°F to +195°F)
Weight	1.0 kg (2.2lb)
Dimensions [W, H, D]	137mm x 95mm x 82mm

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SCALABLE
VISION SOLUTIONS

Black Moth Vision Systems Pty Ltd
42 McKechnie Drive
Brisbane Tech Park 4113 Australia
blackmoth.com

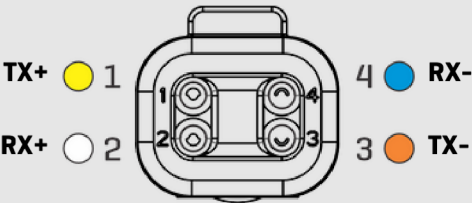


Our Vision is to usher in an era where every machine not only sees but understands its surroundings, driving unparalleled growth, safety, and innovation through our vision technologies

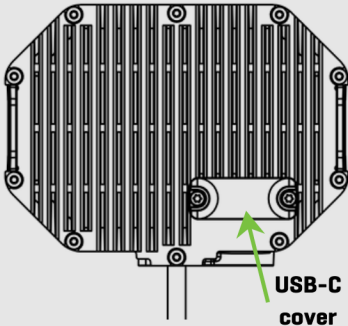
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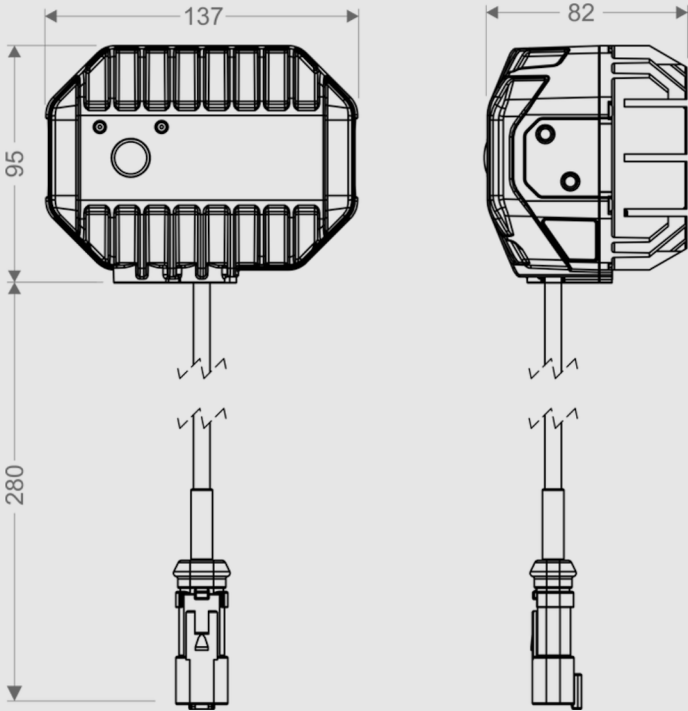
Connector Pinout



USB-C Access



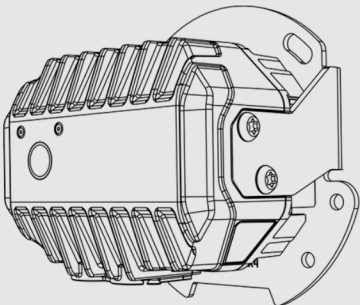
Dimensions



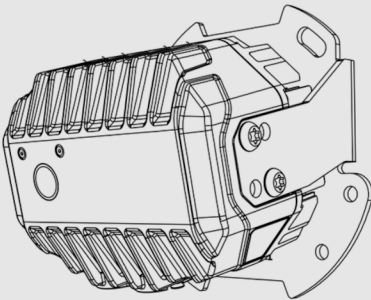
Black Moth has an IP69K Overmold connector when utilizing this feature and Active Optical Cabling solutions to support video and HMI interfaces up to 20m. Video only 20-50m. **For more information, please reach out to support@blackmoth.com.**

Basic Mounts

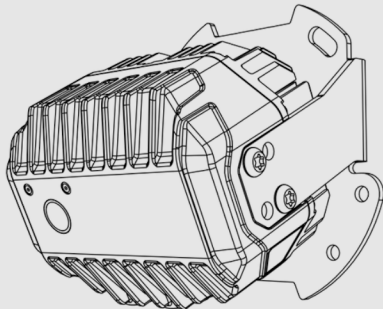
0° Tilt



12.5° Tilt



25° Tilt



Black Moth offers a comprehensive suite of mounting solutions for the mining industry. Our product line includes direct mounts, Stauff Clamps, extension brackets, cabling harnesses and accessories assembled into complete solution kits to meet your machinery needs. Currently, we offer field-tested mounting options for Light Vehicles, Haul Trucks, Drills, Dozers, Excavators, Water Trucks, and Graders.

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