smartMX-180
the smarter camera

180°
provides 180°
horizontal field of view,
eliminating blind spots

rugged
tested for temperature,
vibration and ingress protection to
withstand the toughest conditions

sharp
produces crisp and clear
high resolution HDR
videos and snapshots

robust to the core

Increase driver awareness around your vehicles with the use of smartMX-180. The smart camera helps to create safer worksites for drivers and their immediate surroundings by delivering **high-quality streamed videos** to monitor operations efficiently.

The smartMX-180 represents the future of rugged vehicle vision. Due to its powerful multi-core ARM® processor, it allows **on-board image processing and video streaming**. When used in a multi-camera scenario, each camera independently processes its environment, which leads to short response times for early detection of incidents.

Thanks to an industrial grade HDR image sensor the camera produces clear and detailed images even in demanding lighting and temperature conditions. With a host of configurations, including image transformations and a streaming frame rate of up to 30 frames per second, the smartMX-180 enables truly vivid and smooth vision.

Equipped with a **cast aluminium** enclosure, the camera is designed for the toughest on and off-road environments. Backed by an **IP69K** ingress rating, the highest available ingress protection, it easily withstands **high pressure wash downs**, **severe vibration** and **extreme temperatures**.

The smartMX-180 reflects our emphasis on quality materials and premium workmanship.

smartMX-180

technical specifications (extract)

lens	» 180° horizontal / 160° vertical field of view » glass scratch resistant fixed focus
image sensor	» 1280x800 pixel » low noise SNR or 39dB » high dynamic range 115dB with high sensitivity of 3650mV/lux-sec
processor	» Embedded Freescale® i.MX6 QUAD core (up to 1.2GHz per core) » GPU 2D&3D » 1GB DDR3-1066 RAM
storage	» 16GB eMMC NAND
interfaces	» PoE Port with LEMO® IP67 4 pin connector
environmental	» Temp operating: -40C to 65C » Temp storage: -40C to 80C » Humidity: Up to 100% » IP69K, including high pressure wash » Vibration and shock: 5Hz-150Hz,15mm, 5g / 60g,6ms
supply voltage	» Nominal 42VDC, range 32-57V DC PoE Power (IEEE802.3at Powered Device Compliant)
size & weight	» Dimensions: 200mm(W)x200mm(H)x50mm(D) » Weight: 864g
warranty	» One year

Specifications subject to change // © Black Moth Vision Systems 2019

high definition HDR imagery

360° surround vision using multiple cameras

IP69K rating

operates from -40°C to +65°C

Vision in Motion

Black Moth's intelligent mobile vision and communication solutions improve worksite safety for heavy machinery. We provide cutting-edge technology and rugged products to support operations in a wide range of transport and heavy industries.

Black Moth Vision Systems Pty Ltd
Brisbane Technology Park
42 McKechnie Drive
Brisbane 4113, Australia

+61 7 3053 8163   hello@blackmoth.com   www.blackmoth.com