

# 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)

<b>lens</b>	<ul style="list-style-type: none"> <li>» 180° horizontal / 160° vertical field of view</li> <li>» glass scratch resistant fixed focus</li> </ul>
<b>image sensor</b>	<ul style="list-style-type: none"> <li>» 1280x800 pixel</li> <li>» low noise SNR or 39dB</li> <li>» high dynamic range 115dB with high sensitivity of 3650mV/lux-sec</li> </ul>
<b>processor</b>	<ul style="list-style-type: none"> <li>» Embedded Freescale® i.MX6 QUAD core (up to 1.2GHz per core)</li> <li>» GPU 2D&amp;3D</li> <li>» 1GB DDR3-1066 RAM</li> </ul>
<b>storage</b>	<ul style="list-style-type: none"> <li>» 16GB eMMC NAND</li> </ul>
<b>interfaces</b>	<ul style="list-style-type: none"> <li>» PoE Port with LEMO® IP67 4 pin connector</li> </ul>
<b>environmental</b>	<ul style="list-style-type: none"> <li>» Temp operating: -40C to 65C</li> <li>» Temp storage: -40C to 80C</li> <li>» Humidity: Up to 100%</li> <li>» IP69K, including high pressure wash</li> <li>» Vibration and shock: 5Hz-150Hz,15mm, 5g / 60g,6ms</li> </ul>
<b>supply voltage</b>	<ul style="list-style-type: none"> <li>» Nominal 42VDC, range 32-57V DC PoE Power [IEEE802.3at Powered Device Compliant]</li> </ul>
<b>size &amp; weight</b>	<ul style="list-style-type: none"> <li>» Dimensions: 200mm[W]x200mm[H]x50mm[D]</li> <li>» Weight: 864g</li> </ul>
<b>warranty</b>	<ul style="list-style-type: none"> <li>» Two years</li> </ul>

Specifications subject to change // © Black Moth Vision Systems 2017

high definition  
HDR imagery

360°  
surround vision  
using multiple  
cameras

IP69K  
rating

operates from  
-40°C to +65°C

