

**Rugged HDR OEM cameras**

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Our rugged and compact cameras withstand the toughest conditions: cold, heat or permanent vibrations to name only a few. At First Sensor the complete assembly process is under one roof - from the processing of the sensor chip to the finishing of the camera system. At the same time we save you unnecessary development effort during the integration into your systems due to our modular camera design with different interfaces and data formats. All cameras can be adapted quickly and flexibly to customer-specific requirements.

**Programmable VGA CMOS Cameras**

These analog cameras with a screw thread are especially designed for mobile video surveillance applications. A programmable interface allows individual settings of brightness adaptation and mirror functions. In addition, the rugged housings protect the cameras against the ingress of water and dust.

Parameter	Special features
Memory	8 KB flash
Input voltage	12/24 V <sub>DC</sub>
Current consumption at 12 V <sub>DC</sub> /30 fps	55 mA
Data interface	Analog (PAL/NTSC)
Operating temperature	-40 ... 105 °C

## Blue Eagle Cameras

### Digital HDR CMOS cameras

With their extremely large dynamic ranges >100 dB the digital megapixel cameras are ideal for high brightness differences and low light conditions. The cameras offer a wide range of digital data interfaces for easy and flexible integration into automotive on-board networks and driver assistance systems. In addition, the rugged housings protect the cameras against the ingress of water and dust.



Parameter	Special features
Memory	512 KB flash
Input voltage	PoE, Clamp15
Current consumption at 12 V <sub>DC</sub> /30 fps	80-110 mA
Data interface	Ethernet, LVDS, APIX, MOST150
Operating temperature	-40 ... 85 °C / -40 ... 95 °C / -40 ... 105 °C

## Blue Raven Cameras

### Stand-alone HDR CMOS cameras

The stand-alone HDR CMOS cameras feature a powerful microcontroller and internal memory, which enables the evaluation of the images inside the camera system through complex software algorithms. In that case, the camera does not forward images but only the obtained information to reduce the amount of data. Further, the HDR CMOS cameras allow the fusion of the images with other sensor signals such as radar.



Parameter	Special features
Memory	4 GB DDR3-RAM, 4 GB NAND flash
Input voltage	PoE, 12/24 V <sub>DC</sub>
Current consumption at 12 V <sub>DC</sub> /30 fps	200-230 mA
Data interface	Ethernet
Operating temperature	-40 ... 85 °C