

Camera head for off-highway applications

Imaging sensor for assistance, automation and robotics



3MP off-highway camera head

With the off-highway camera head, Bosch offers a robust, high-quality, and state-of-the-art video sensor for various applications – from vision-based assistance to autonomous machines.

- Imaging sensor for assistance systems
- Sensor fusion for conditional and fully automated machines
- Adaptability: precise image definition via an external Image Signal Processor (ISP) for specific use cases
- Compatibility: ideal for image-based algorithms and image rendering (e.g., image processing, neural networks)
- Robust design: small, durable, and meets highest quality standards.
- Future-oriented: part of the Bosch modular system with successive variants
- Cost efficiency: excellent price-performance ratio
- Technical excellence: high frame rate, improved light sensitivity, advanced noise reduction, safety features

TECHNICAL CHARACTERISTICS	
3 MP	
190° horizontal / 150° vertical	
1920 x 1536	
30 FPS	
3 μm	
RGGB (no Image Signal Processor (ISP) in camera)	
GMSL2, raw data (12 to 24 Bit)	
FAKRA Code A (black)	
Aluminum with coated glass lens IP6K7	
23 x 23 x 40 mm Ø 17 mm	
Optional	

AVAILABILITY	
3MP sample	Available
Production model	Q4 2026

Support for sample commissioning and production integration



Integration support:

- Sample bracket
- Sample cables
- Frame grabber solution
- Parameter files
- ISP tuning





