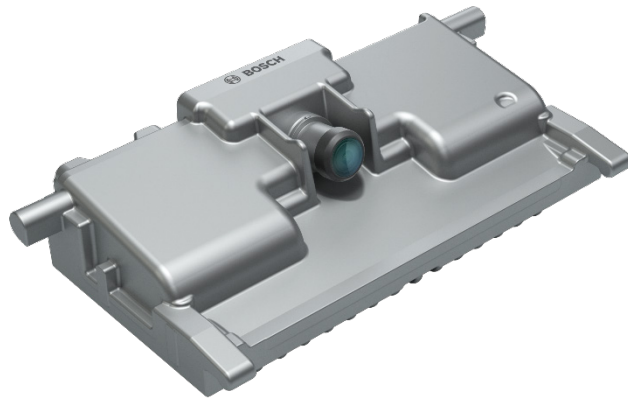# Multi purpose camera

Combination of classic cutting edge computer vision algorithms and artificial intelligence methods

Safe perception through an algorithmic multi-path approach

- ▶ System-on-chip with Bosch know-how for cutting-edge algorithm performance
- ▶ Reliable full scene understanding for increased safety using algorithmic multi-path approach
- ▶ Semantic segmentation based on deep learning
- ▶ Optical flow for model-free video processing

large field of view

for detection of crossing vulnerable road users

high angular resolution

with increased range at the center

artificial intelligence

for robust perception and behavior prediction

TECHNICAL CHARACTERISTICS

Optics	Horizontal field of view	± 50°
	Vertical field of view	27° up, 21° down
	Aperture	F1.8
Imager	Resolution	2.6 MP HDR (2,048 x 1,280 pixels)
	Color pattern	RCCG
	Frame rate	45 frames per second, with flicker mitigation
System on chip	Technology	16 nm FFC
	Processing system	4 x ARM quad core (~ 9000 DMIPS) + 1 x ARM dual lockstep
	Hardware accelerator	DNN, classifier, optical flow, flexible CV engines
Safety level		Up to ASIL-B
Mechanics	Box size	120 x 61 x 36 mm