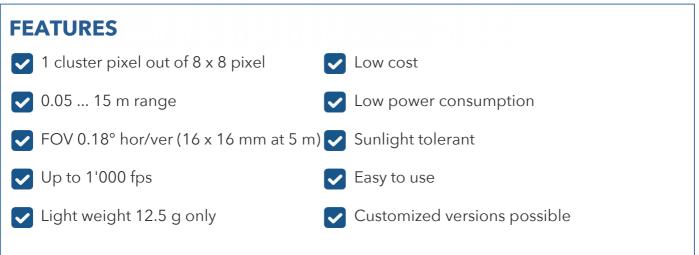


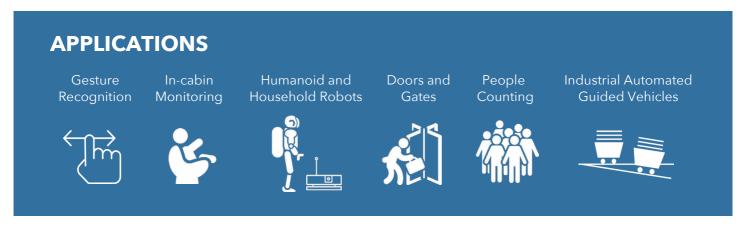


TOFrange-611 Miniaturized Range-finder



FUNCTIONAL DESCRIPTION

The TOFrange-611 is a miniaturized and cost optimized range-finder. It is based on the ESPROS proprietary time-of-flight technology using the epc611 TOF chip and a small LED to illuminate the scenery. The range-finder controls the illumination and the imager chip to obtain distance and confidence information. Due to the high performance of the imager chip with its unique ambient light suppression, the range-finder can be used in outdoor applications at full sunlight. This allows a wide variety of new applications, e.g. for mobile robotics. This very small module is easy to use because it delivers fully calibrated and compensated distance values. All the complex engineering and time consuming design tasks regarding optics, illumination and signal processing are already solved.



SPECIFICATIONS



Range 0.05 ... 15 m



Resolution 1 pixel, range-finder



Accuracy < 2 m: ± 4 cm > 2 m: ± 2%







Data Output 4 Bytes per pixel Resolution 0.1 mm ROS driver upon request





Temperature Range -20 ... +85°C

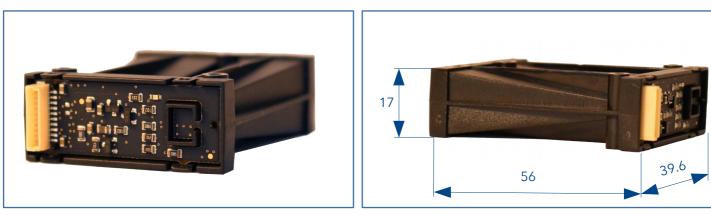
epc

espros photonics corporation



Power Consumption 5 V, 400 mW

MECHANICAL DIMENSIONS



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