

TOF>range 611 Miniaturized Range-finder

FACTS

- ✓ 1 cluster pixel out of 8x8 pixel
- ✓ 0.05 - 15m range
- ✓ FOV 0.18° hor/ver (16 x 16mm at 5m)
- ✓ Up to 1'000 fps
- ✓ Light weight 12.5g only
- ✓ Low cost
- ✓ Low power consumption
- ✓ Sunlight tolerant
- ✓ Easy to use
- ✓ Customized versions possible

FUNCTIONAL DESCRIPTION

The TOF>range 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.

APPLICATIONS

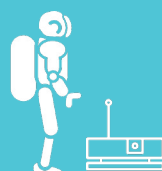
**Gesture
Recognition**



**In-cabin
Monitoring**



**Humanoid and
Household Robots**



**Doors and
Gates**



**People
Counting**



**Industrial Automated
Guided Vehicles**



SPECIFICATIONS



Range
0.05 - 15m



Power Supply
5V, 400mW



Ambient-light
100kLux



Resolution
1 Pixel, range-finder



Interface
UART 1MBit/s



Temperature Range
-20 - +85°C



Accuracy
< 2m: ± 4cm
> 2m: ± 2%

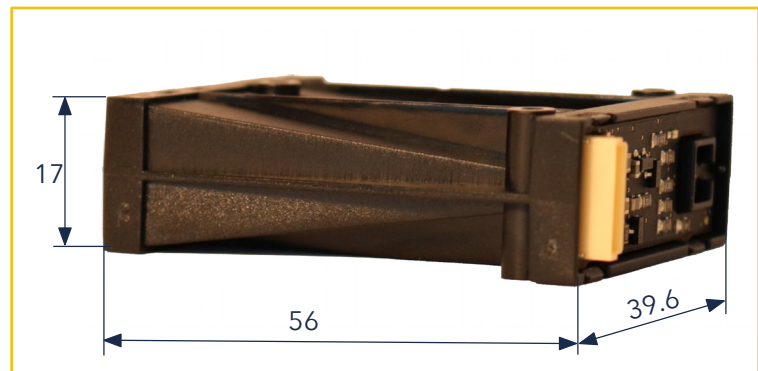


Data Output
4 Bytes per pixel
Resolution 0.1mm
ROS driver upon request



Field of View
0.18° hor/ver

MECHANICAL DIMENSIONS



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