



TOFcam-611

Miniaturized 3D TOF camera

FEATURES

- ✓ 8 x 8 pixel
- ✓ 0.1 ... 2 m range
- ✓ FOV 12° hor/ver
- ✓ >50 fps
- ✓ Light weight 3.7 g only
- ✓ Low cost
- ✓ Low power consumption
- ✓ Sunlight tolerant
- ✓ Easy to use
- ✓ Customized versions possible

FUNCTIONAL DESCRIPTION

The TOFcam-611 is a miniaturized and cost optimized 3D TOF camera. 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 camera controls the illumination and the imager chip to obtain distance and confidence images. Due to the high performance of the imager chip with its unique ambient light suppression, the camera 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 3D images. 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
0.1 ... 2 m



Power Consumption
5 V, 80 mA



Ambient-light
100 kLux



Resolution
8 x 8 pixel



Interface
UART 1 Mbit/s



Temperature Range
-20 ... +85°C



Accuracy
±4 cm

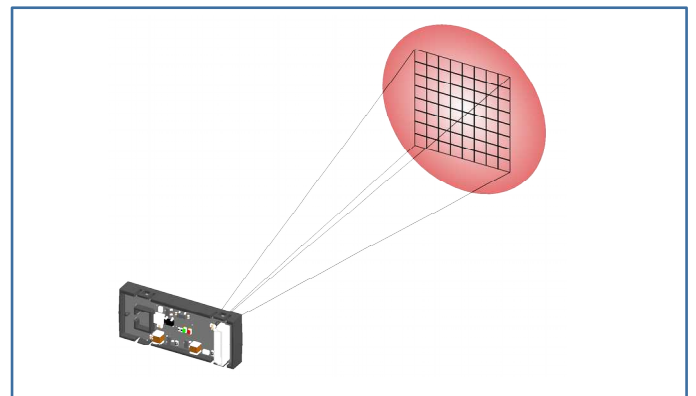
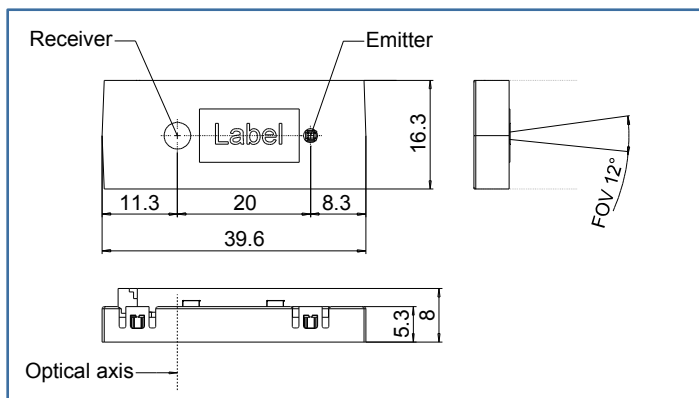


Data Output
Resolution 0.1 mm
4 Bytes per pixel
ROS driver upon request



Field of View
12° hor/ver

MECHANICAL DIMENSIONS



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