

# espros photonics corporation

## TOF>cam 635 **Miniaturized 3D Camera** Preliminary

# **FEATURES** SLAM and collision avoidance Low power consumption Low cost Sunlight tolerant Easy to use

Customized versions possible

 $\checkmark$ 



## **FUNCTIONAL DESCRIPTION**

The TOF>cam 635 is a new design of a miniaturized and cost optimized 3D camera. It is based on the ESPROS proprietary time-of-flight technology using the epc635 TOF chip. The camera controls the illumination and the imager chip to obtain distance and grayscale images.

The depth images are compensated against ambient light, temperature and reflectivity of the scene. Thanks to the high performance of the imager chip with the unique ambient light suppression, the camera can be used in many cases under full sunlight condition. The output of the TOF>cam 635 is depth and gray-scale images - allowing a variety of new applications, e.g. for mobile robotics. This module brings you right in front with the latest technology of 3D depth sensing. All the complex engineering and time consuming design tasks regarding optics, illumination and signal processing are already solved.

## APPLICATIONS

Gesture Recognition







Humanoid and Household Robots Doors and Gates



People Counting











#### **SPECIFICATIONS**



Range Wide FOV: 0.1 - 5m Center beam: 1.0 - 15m



**Resolution** 160x60 Pixel



Accuracy ±2cm (0.1 - 1m) ±2% (1 - 15m)



**Field of View** 60°x22.5°







**Data Output** 14 bit distance data in mm 2 bit confidence data 12 bit grayscale data ROS driver upon request



**Power Consumption** Supply voltage 5V Approx. 1W, depending on operation mode







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#### Various

Automatic integration time Evaluation software and interface for Windows and macOS available

#### **MECHANICAL DIMENSIONS**





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