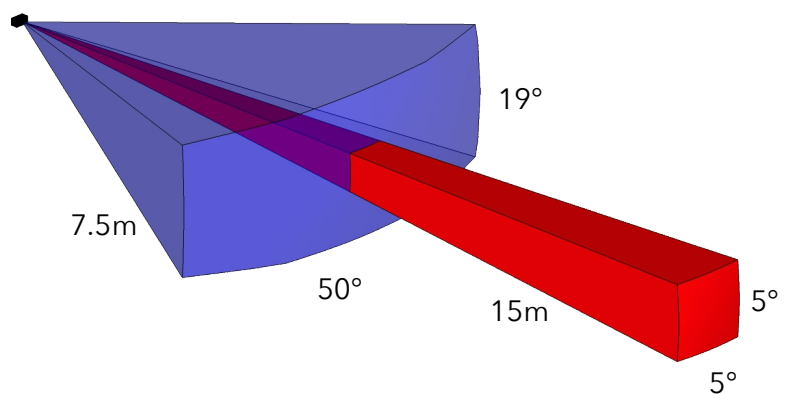


## TOF>cam 635 Miniaturized 3D Camera

### FEATURES

- ✓ Dual beam
- ✓ Low power consumption
- ✓ Low cost
- ✓ Up to 100kLux sunlight suppression
- ✓ Easy to use
- ✓ Customized versions possible



### 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



In-cabin Monitoring



Humanoid and Household Robots



Doors and Gates



People Counting



Industrial Automated Guided Vehicles



## SPECIFICATIONS



### Range

Wide FOV: 0.1 - 7.5m  
Narrow FOV: 1.0 - 15m



### Frame Rate

up to 50fps



### Ambient-light

100kLux



### Resolution

160 x 60 Pixel



### Interface

UART 10MBit/s



### Temperature Range

-20 - +60°C



### Accuracy

±2cm (0.1 - 1m)  
±2% (1 - 15m)



### Data Output

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



### Various

Automatic integration time  
Evaluation software and  
interface for Windows and  
Mac OS® available



### Field of View

Wide FOV: 50° x 19°  
Narrow FOV: 5° x 5°



### Power Consumption

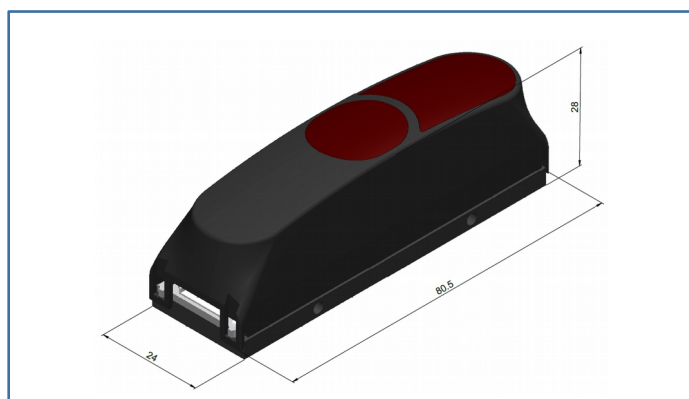
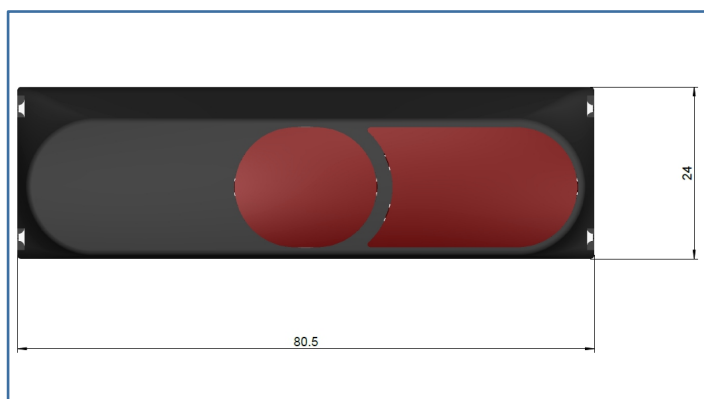
Supply voltage 5V  
Approx. 1W, depending  
on operation mode



### Dimensions

L x W x D = 80.5 x 24 x 28mm

## MECHANICAL DIMENSIONS



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## CONTACT INFORMATION

[www.espros.com](http://www.espros.com)

Headquarters Switzerland

phone: +41 58 411 03 00

email: [sales@espros.com](mailto:sales@espros.com)

US / Canada Sales Office

Phone: +1 336 837 882

email: [sales\\_us@espros.com](mailto:sales_us@espros.com)

China Sales Office

phone : +86 150 2112 2587

email [sales@espros.cn](mailto:sales@espros.cn)