

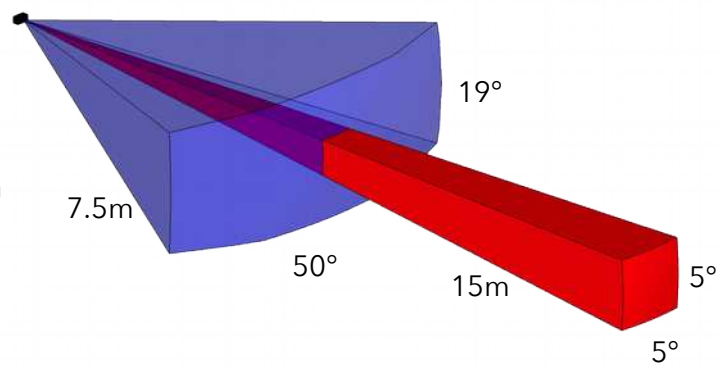


TOFcam-635

Miniaturized 3D Camera

FEATURES

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

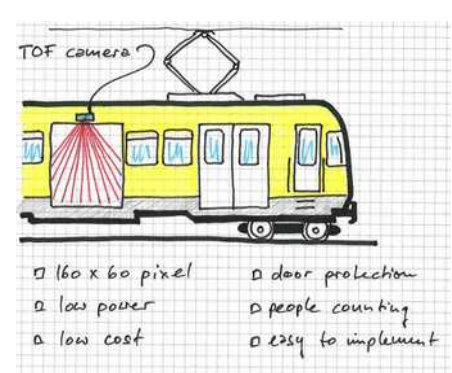
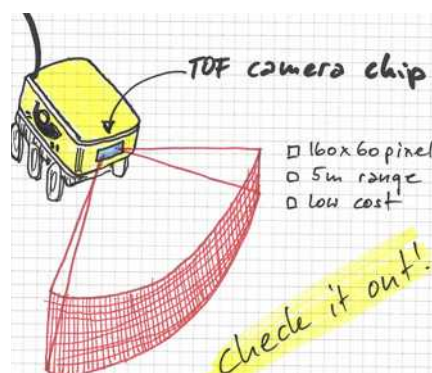
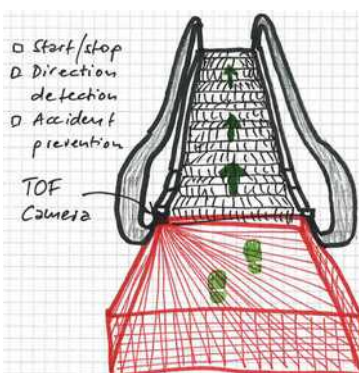


FUNCTIONAL DESCRIPTION

The TOFcam-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 TOFcam-635 is depth and grayscale 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



SPECIFICATIONS



Range

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



Temperature Range

-20 - +60°C



Data Output

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



Accuracy

±2cm (0.1 - 1m)
±2% (1 - 15m)



Ambient-light

100kLux



Frame Rate

up to 50fps



Field of View

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



Power Consumption

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



Various

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



Resolution

160 x 60 Pixel



Interface

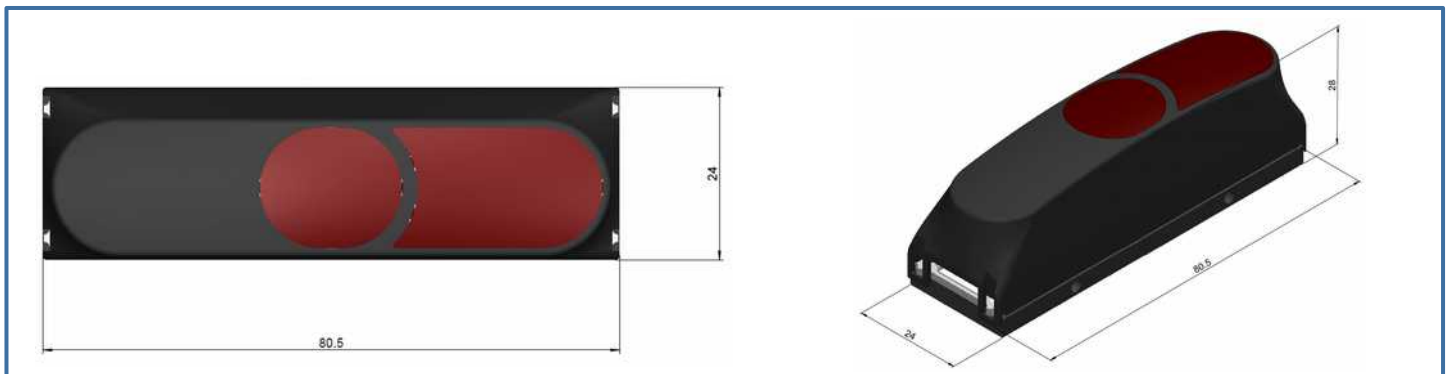
UART 10MBit/s



Dimensions

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

MECHANICAL DIMENSIONS



ORDER INFORMATION

Name:	Part No:
TOFcam-635	P100 531
Cable 10 pin; F-F; JST 1.0mm	P100 516
USB adapter kit	P100 539

CONTACT INFORMATION

Headquarters Switzerland
phone: +41 58 411 03 00
email: sales@espros.com

US / Canada Sales Office
phone: +1 336 837 8820
email: sales_us@espros.com

China Sales Office
phone: +86 150 2112 2587
email sales@espros.cn