



PRODUCT DATASHEET / RGB + TOF DEPTH SENSING

DM_RGBD_5002A

1.2M RGB + VGA ToF USB Camera



RGB SENSOR

VGA TOF

USB 2.0

Rev. 1.0
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01 / Product Overview

Integrated RGB imaging and VGA ToF depth sensing for 3D applications

ABOUT THE DEVICE

DM_RGBD_5002A combines a high-performance VGA ToF sensor with an RGB sensor. High integration, low power consumption, high precision, and easy operation make it ideal for 3D depth sensing applications.

FEATURE

Designed for reliable depth

- Embedded algorithm
- Wide distance range
- High sunlight immunity
- Low effect from MPI
- Low temperature drift

TYPICAL APPLICATIONS

Built for 3D perception

- Face recognition
- 3D reconstruction
- AR / VR
- Robotics navigation
- Volume measurement

DM_RGBD_5002A

Compact hardware. Practical depth data.

USB-connected RGB + ToF sensing for fast integration into your product.

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02 / Key Specifications

ToF Sensor Resolution	Up to 640 x 480 @ 25 fps
RGB Sensor Resolution	1280 x 960 @ 30 fps
Distance Range	0.2 m - 5 m
Wavelength	940 nm
Accuracy	2% @ center 10 x 10 pixel
ToF FOV	H64° x V51°
RGB FOV	H76° x V61°
Size	79 mm x 35 mm x 15.7 mm
Interface	USB 2.0
Power Supply	USB 2.0 (5 V / 2 A)
Power Consumption	Average < 3.6 W @ 25 fps
Operating System	Windows / Linux / Android / ROS
Operating Temperature	-10°C - 45°C
Security	Class I Laser

03 / Pin Description

USB 2.0 wafer interface | Pin 1 orientation shown below



1, 2 VBUS	3 D+	4 D-	5, 6 GND
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