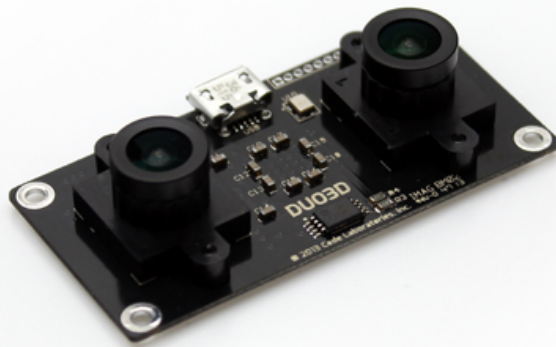# DUO M

Specifications

Description

The DUO M is an ultra-compact, configurable imaging sensor with a standard USB interface. Intended for use in research, industrial and integration. The camera's high speed and small size make it ideal for existing and new use cases for vision based applications.   Delivering configurable more...

Version
Revision 2.0

SKU
DUO-MINI-LV1

Contents

DUO Sensor

1x Compact DUO M Unit

1x Getting Started Card

1x USB Mini-B Cable

DUO Software

1x DUO API/SDK License

1x DUO Dense3D License

Related

DUO M

DUO MLX

DUO DDK

Sensing Unit

Model
DUO-MINI-LV1(DUO M R2)

Dimensions
52.02mm x 25.40mm x 11.60mm

Frame Rates
0.1-3000+ FPS

Stereo Resolutions
Configurable Binning/Windowing:
- 56 FPS @ 752x480
- 62 FPS @ 640x480
- 123 FPS @ 640x240
- 240 FPS @ 640x120
- 93 FPS @ 320x480
- 184 FPS @ 320x240
- 360 FPS @ 320x120

Pixel Size
6.0 x 6.0μm

Shutter Speed
0.3 μsec ~ 10 sec

Baseline
30.0mm

Lens Mount
Standard M8 x P0.5 (Can support M12)

Field of View
170° Wide Angle Lens
Low Distortion < 3%

Focal Length
2.0mm - 2.1mm

Filters
No Filters (Full Visible Spectrum)

Illumination
Available on the DUO MLX

Illumination Control
Available on the DUO MLX

Motion Sensing
Available on the DUO MLX

Color Modes
Monochrome (S/N Ratio > 54dB Linear)

Control Functions
Exposure/Shutter/Brightness

Scanning Modes
Progressive Scan/Global Shutter

Power Consumption
~2.5 Watt @ +5V DC from USB

Interfaces
480 Mbps - USB 2.0 Interface (Micro USB)

Mounting Options
1 x 1/4"-20 UNC thread mount

Weight
6.5g

Software

Operating Systems
DUO OS - Custom Linux Kernel
Linux, Mac OS X & Windows

Applications Included
DUO Dashboard Host

- Calibration Application

- Camera Application

- Dense3D Application

Developers
DUO Device SDK
DUO Dense3D SDK

Integration
OpenCV/Qt5

Platforms

The **DUO M** supports:
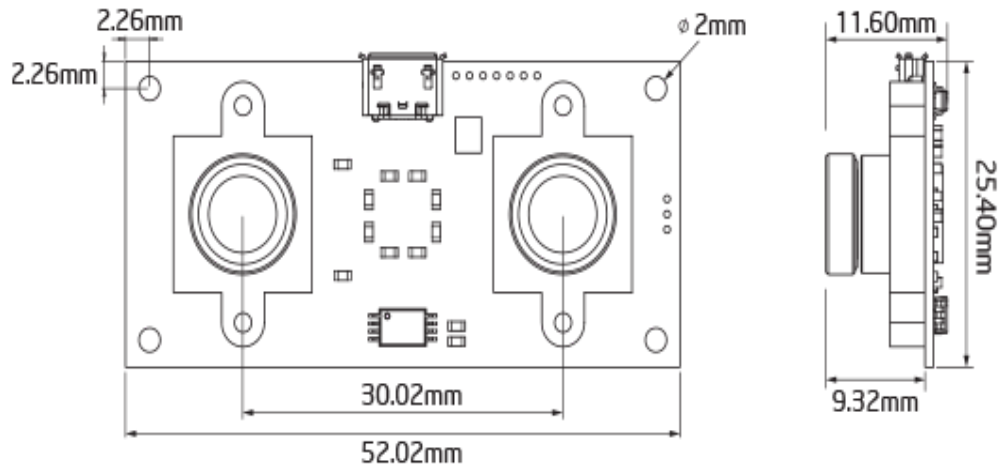32bit/64bit Linux (Ubuntu 12 or later)

The **DUO M** supports:
64bit Mac (OS X 10.8 or later)

The **DUO M** supports:
32bit/64bit Windows (7/8 or later)

Dimensions

Environment

Operating Temperature
0° to 40-50° C (32° to 104-122° F)

Storage Temperature
-20° to 45° C (-4° to 113° F)

Relative Humidity
0% to 90% non-condensing

Warranty

Product Warranty
12 Month Limited Manufacturer's Warranty.

Where to Find Details
Refer to product Installation and Operation Manual and Product's Warranty.