imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Sentis^{3D} - M520

Time-of-Flight Smart Sensor



The Sentis^{3D} - M520 is a new depth sensor, operating on the Time-of-Flight (ToF) principle. The M520 is equipped with a PMD PhotonICs® 19k-S3 Timeof-Flight 3D IC and a high resolution 2D CMOS sensor.

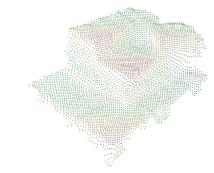
The smart depth sensor IC delivers depth information and gray value image data for each pixel simultaneously. An integrated 2D CMOS imager captures scenes with a resolution of up to 1080p. Therefore, it's possible to analyze scenes based on 3D depth data only or in combination with 2D data.

Using active IR illumination, the sensor is able to capture 3D and 2D information. With a range of 10 m indoors, a field of view of 90° and a size of only 130 x 95 x 40 mm, this Gigabit Ethernet connected sensor can be used for next generation sensor systems in various application fields like robotics, automation and people counting.



Highlights

- » 3D depth sensor (160 x 120 pixel)
- » 2D CMOS imager (5 MP)
- » Up to 160 fps*
- » Up to 10 m application range^{*}
- » Gigabit Ethernet
- » PoE++ Support
- » Field-of-View 90°



Sentis^{3D} - M520 point cloud for e.g. goods inspection



Applications

» People counting / tracking» Building Automation

3D light barrier - safety area Gesture Recognition

HMI for industrial robots Range measurements

»





Time-of-Flight Smart Sensor



Feature Overview

Depth Sensor	PMD ToF (19k-S3) 160 x 120 Pixel up to 160 FPS ⁺
2D CMOS	OV5640 (5MP) 720p @ 60 FPS *
Range	up to 10 m *
LED	up to 2 x 6 high power LEDs
Power Supply	12 - 30 V _{DC}
Ethernet	10 / 100 / 1000 Mbit/s
PoE++	up to 60 W
OWIRE	1
Mod Interface	1
GPIO I/O	1 (galvanic isolated)
I ² C	1
Trigger In	1
Trigger Out	1
Temperature Range	Industrial -20 to +60 °C depends on heatsink
Supported OS	Windows Linux
Cooling	Heatsink required
Dimensions	W130 x H95 x D40 mm

Software

Sentis^{3D} - M520 software support

» Free Linux BSP with multi core support



Customization

Sentis³⁰ – M520 is focused on modularity. Individual base boards with your required interfaces can easily be implemented.

For further information please contact sales@bluetechnix.com

Ordering Information

Order No.	Info
150-3040-1	Sentis ^{3D} - M520 Kit
	Time-of-Flight smart sensor

FPS & Range depends on integration time, ambient temperature, FoV and software configuration



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