

LightRanger 8 Click



PID: MIKROE-4492

LightRanger 8 Click is a compact add-on board that contains a ranging sensor with multi-target detection. This board features the VL53L3CX, the latest Time-of-Flight (ToF) product that embeds third-generation FlightSense patented technology from STMicroelectronics. It combines high-performance proximity and ranging sensor with multi-target distance measurements and automatic smudge correction. Also, it integrates a single-photon avalanche diode array and physical infrared filters to achieve the best ranging performance in various ambient lighting conditions, with a wide range of cover glass windows. This Click board™ is suitable for smart buildings and lighting, service robots, video focus tracking assistance, and many more.

LightRanger 8 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Optical
Applications	Can be used for smart buildings and lighting, service robots, video focus tracking assistance, and many more.
On-board modules	VL53L3CX - latest Time-of-Flight ranging sensor with multi-target detection from STMicroelectronics
Key Features	Fully integrated miniature module, high accuracy linearity, multi-target detection, immune to cover glass cross-talk and fingerprint smudge at long distance with patented algorithms, histogram based technology, and more.
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[VL53L3CX datasheet](#)

[LightRanger 8 click 2D and 3D files](#)

[LightRanger 8 click schematic](#)

[LightRanger 8 click example on Libstock](#)

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