

MLR100

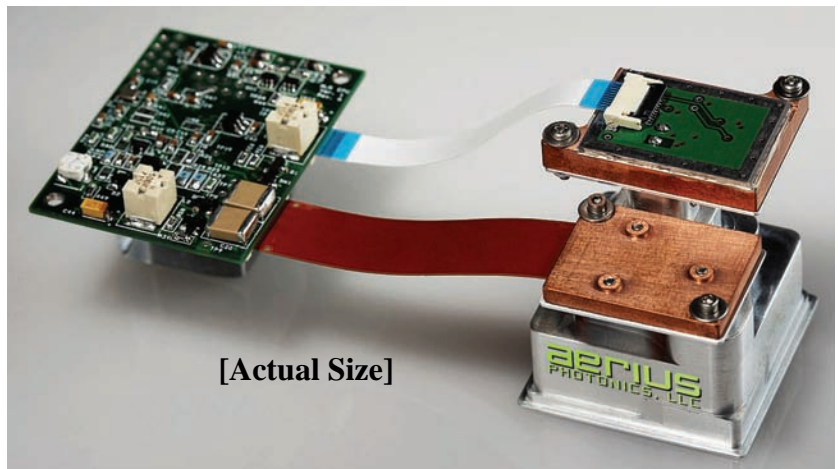
Miniature Laser Rangefinder Series

Miniature Laser Rangefinder/Altimeter

Low power, compact, versatile

Features

- Weighs 22 g (0.8 oz)
- Consumes < 400 mW (@ 255 Hz)
- Fits within 1.25" x 1.25" x 1.6" (under 3 cubic inches)
- Up to 500 Hz ranging rate
- Resolution better than 20 cm (8 in)
- System customization and data processing options available
- Ranges from 0 cm to beyond 100 m



Available Products:

- Aerius MLR100 laser rangefinder
- PC interface adapter board (USB—MLR100)
- Lightweight housing
- PC control software and data logging software
- Handheld controller and display
- Replaceable protective windows and mounting flanges
- Communications and power adapter (RS232, USB, I2C, SPI, UART)
- Complete system evaluation kit

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Aerius' miniature laser rangefinder provides a solution for determining distances in fast moving objects or vehicles. It consumes only 3 mW in Sleep mode and under 400 mW at 255 Hz ranging rate. The MLR100 model has a long range capability better than 100 m with a resolution better than 20 cm and a short range capability to contact. Typical applications include unmanned aerial vehicles where height above ground or collision avoidance are needed and weight and space are at a premium.

Aerius Photonics, LLC develops infrared solutions for military, scientific, and industrial markets.

Parameter	Typical Value
Wavelength	905 — 940 nm
Range	~ 0 cm to > 100 m
Resolution	< 0.2 m
Divergence angle	10 x 10 mrad
Electronics interface	3-wire clocked serial
Weight	26 g
Size	1.25" x 1.25" x 1.6"
Power consumption	400 mW @ 255 Hz
Pulse Repetition Frequency (variable)	Up to 500 Hz
Eye Safety	Class 1 to 10Hz