

MLR100

Miniature Laser Rangefinder Series

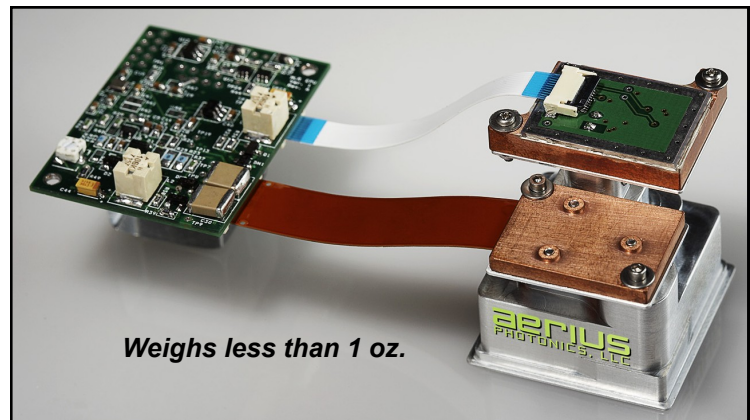
Aerius Photonics' miniature laser rangefinder provides a solution for determining distances in fast moving objects or vehicles. It consumes only 3 mW in Sleep mode and under 400 mW at 255 Hz ranging rate. The MLR100 model has a long range capability better than 100 m with a resolution better than 20 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.

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

Other Aerius Products

- **1km and 3km laser rangefinders**
- **High-power laser diodes**
- **NIR laser illuminators and pointers**
- **SWIR camera sensors**
- **IR detectors and focal plane arrays**

Miniature Laser Rangefinder/Altimeter Low power, compact, versatile



Features

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

MLR100 Companion Products

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

Preliminary Datasheet— specifications may change at any time without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. The MLR100 is export restricted. August 2010.