

## MLR K-Series

### Miniature Laser Rangefinder Series

The Aerius Photonics K-Series of laser rangefinders are designed for ranges from less than 1 m to 3000 m and provide all the performance features consistent with Aerius Photonics' established series of miniature laser rangefinders.

*The MLR3K Laser Rangefinder  
Low power, compact and versatile*



Parameter	Typical Value
Wavelength	1500 — 1600nm
Range	< 1m to 3000m
Resolution	< 0.03 m
Divergence angle	0.6 x 0.6mrad
Electronics interface	RS232/UART
Weight	120g
Size	35mm x 55mm x 65mm
Power consumption	1.5 W @ 5 Hz
Range Repetition Frequency (variable)	Up to 5 Hz
Eye Safety	Class 1

### Features

- Ranges from <1 m to 3000m
- Multi-hit returns
- Weighs 120 grams
- Consumes 1.5W @ 5Hz
- Fits within 35mm x 55mm x 65mm
- Up to 5 Hz ranging rate
- Resolution better than 3 cm
- 1 m accuracy
- System customization and data processing options available
- Custom options for OEM integration available

**Aerius Photonics**  
is a leading designer and seller of highly-efficient semiconductor lasers, low-noise photodetectors and OEM electro-optical sub-systems for commercial and government applications.

### Applications

- Manned and unmanned aerial vehicles
- Laser altimetry
- Collision avoidance
- Laser locating
- OEM systems

### Other Aerius Photonics Products

- High-power pulsed and continuous VCSELS
- Miniature laser range-finders and altimeters
- NIR laser illuminators and pointers
- SWIR camera sensors
- Infrared detectors and focal plane arrays

*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 MLR1K and MLR3K are export restricted. April 2011.*