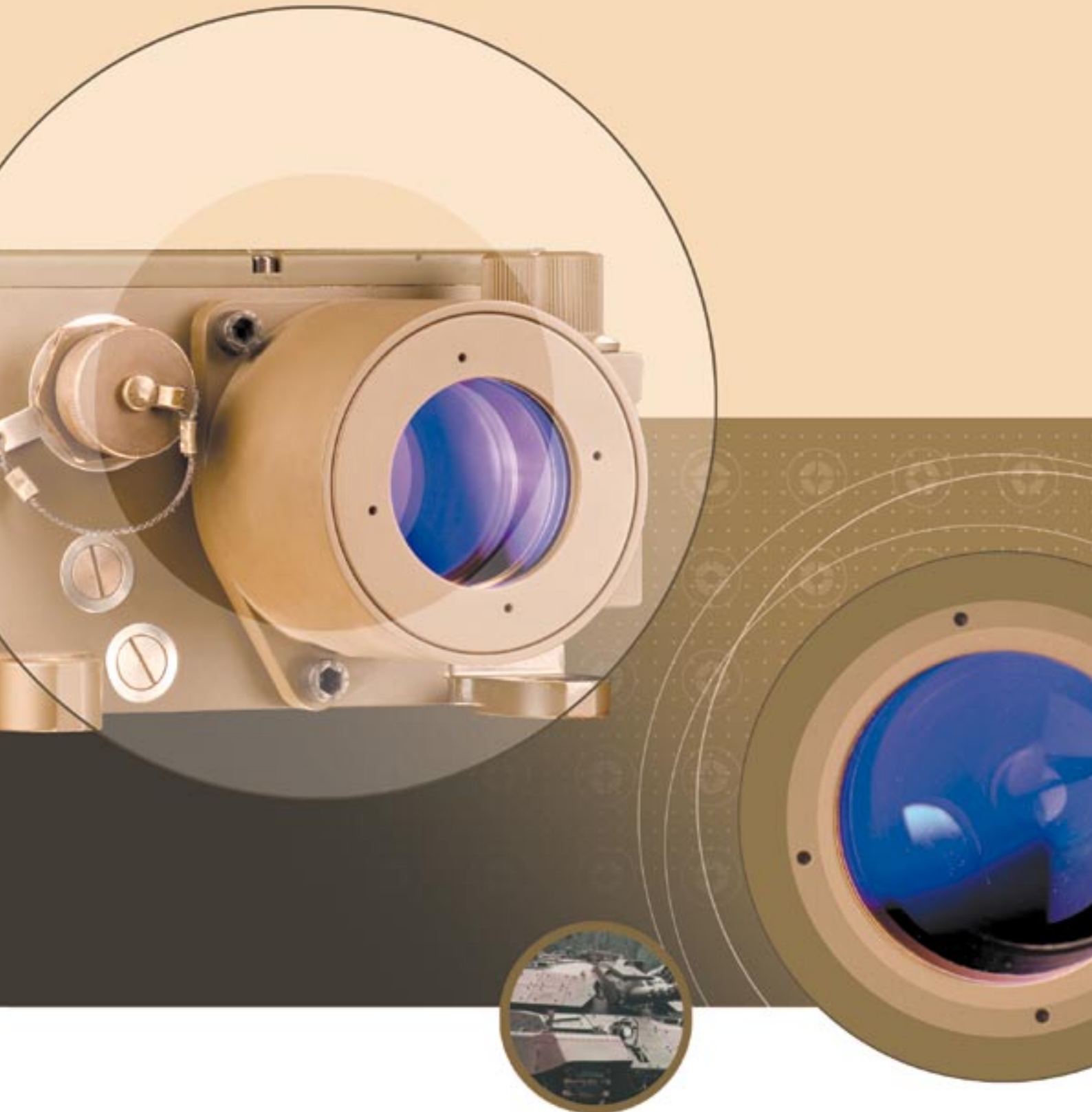


Remote Ranging from Ground, Air and Sea



Remotely controlled
eye-safe laser rangefinder

LRM - E 2

Fotona[•]

Remotely controlled eye-safe laser rangefinder LRM-E2 is designed around an Er:Glass laser transmitter complying with Class 1 (no laser hazard) IEC safety requirements. Extinction ratio exceeds 42 dB and allows ranging of non-cooperative targets at distances up to 20 km. A system of optical wedges for alignment of LRM-E2 with optical axes of another sensor – typically video or thermal camera – is provided as an integral part of the instrument. Control of the alignment is by means of a removable eyepiece, which can be equipped with a CCD camera. Data exchange protocol is according to RS 232, RS 422 or RS 485. Comprehensive BIT (Built-In Test) capability is implemented. An optional lightly armored protective cover shields the unit against small caliber projectiles and other particles.

LRM-E2 is used for range sensing, mounted on multiple sensor platforms or on the gun mantlets of armored vehicles. Typical applications include sensor platforms on border control vehicles, naval fire directors, simplified tank fire control systems (example: Fotona FCP-62), etc.



Sub-systems of LRM-E2, integrated in gyro-stabilized airborne optronic platforms, are known as AZ-LRF rangefinders and are used on various aircraft and UAVs.



Technical data

Laser transmitter	Er:Glass laser
Wave length	1.543 μm
Output energy	less than 8 mJ (Class 1 according to IEC 825)
Repetition rate	20 measurements / minute
Radial target resolution	< 30 m
Range	50 m to 20.000 m
Range accuracy	± 5 m
Readout resolution	2 m
Power supply	18 to 32 V DC
Dimensions	335 x 150 x 105 mm
Mass	5 kg