

ESLRF - the eye from the sky



Eyesafe Laser Rangefinder Module  
for remotely controlled airborne applications

ESLRF

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# Eyesafe Laser Rangefinder Module

for remotely controlled airborne applications

ESLRF is a laser rangefinder module designed for integration into remotely controlled airborne and land-based optronic payloads. It is built around an erbium-glass laser transmitter that provides powerful yet eyesafe laser pulses necessary for single-pulse long range measurements.

Boresighting with other optical instruments (thermal and video cameras) within a higher level system is achieved via precise mechanical interface as well as by a pair of optical wedges in front of the ESLRF transmitter aperture.

ESLRF is designed to sustain operation in demanding airborne environment and is thus suitable for installation on UAVs, manned aircraft and helicopters. Total eye safety facilitates ranging against friendly and neutral targets.

Technical data:	
Measuring range:	50 m to 20,000 m
Range resolution:	2 m
Measuring rate:	12 ppm
Burst rate:	3 measurements in 3 seconds, followed by 15 sec. idle period
Multiple targets:	First and last
Target discriminations:	30 m
Laser type:	Erbium-glass
Safety class:	Class 1 (IEC 825-1/2001)
Power:	20 to 31,5 VDC (MIL-STD-704D)
Operating temperature:	-30°C to +65°C
Storage:	-40°C to +70°C
Mass:	0,9 kg
Size:	172x117x86 mm
Interface:	RS 422

