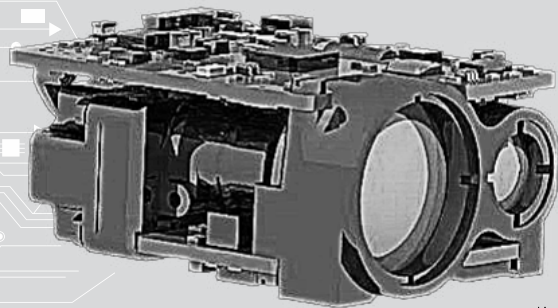


ES-LRFM-500

Laser Rangefinder Module



*Indicative image

ES Systems proudly introduces an advanced laser rangefinder module that offers precise distance measurement to non-cooperative targets up to 4 kilometers away. Its wavelength is invisible to the human eye and undetectable by I²-based night vision. Designed to be both compact and durable, and weighing as little as 39 grams, it is one of the smallest and lightest in its performance class.

This module is well-suited for integration into portable systems and handheld observation devices. Capable of withstanding weapon shocks up to 1500g, it is the top choice for weapon-mounted systems. With its rugged build, military-grade qualification, and broad operating temperature range, the **ES-LRFM-500** is an optimal solution for tactical operations.

The module is provided without an enclosure, allowing users to integrate it directly into their own systems or devices. It also offers a variety of communication interfaces, such as UART TTL, I2C, and SPI.



62, I. Metaxa str.
19441 Koropi - Athens, Greece

T +30 216 2000500

F +30 216 2000555

info@esenssys.com

www.esenssys.com

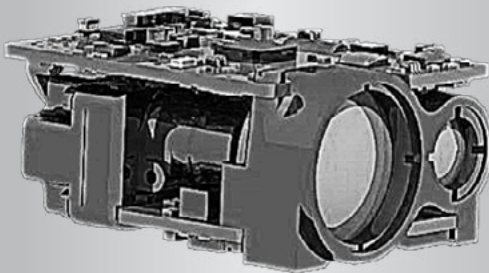




ES-LRFM-500

Laser Rangefinder Module

Specifications



*Indicative image

General	
Wavelength (20 °C)	1550 nm
Laser Classification	Laser Class 1
Operation modes	Single Measurement, 1..10 Hz
Divergence	≤ 0.5 mrad
Meas. Range	10m... 5000m
Number of Targets	Up to 15
Target Discrimination	3m..10m
Meas. Accuracy	< 1 m
Range Rating Resolution	< 3 m
Target Range Performance	
Small Target	3000m (0.75 x 0.75m, Albedo 30%, 25Km Visibility)
NATO Standard Target	4000m (2.3 x 2.3m, Albedo 30%, 25Km Visibility)
Mechanical	
Weight	≤ 39gr
Dimensions (L x W x H)	50 x 30 x 22 mm
Environmental	
Operating Temp.	-40...+65 °C
Storage Temp.	-45...+75 °C
Mechanical Shock	1500g, 1mSec
Electrical and Communication	
Input Voltage	2.2...5.5 V _{DC}
Startup-time (off to meas.)	≤ 120 mSec
Power Cons. (Standby)	≤ 0.01 W
Power Cons. (Meas.)	≤ 2 W
Data Interface	UART (LVTTTL 3.3V), I2C, SPI



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