

OEM FIBER LASER RANGEFINDER FOR LAND AND NAVAL EO SURVEILLANCE AND FIRE CONTROL SYSTEMS



FOGPhotonics,inc
one Idealphotonics company



Features

- Range 30000m,1m accuracy;
- Class 1 Eyesafe laser
- Compact and lightweight design
- High performance
- Low consumption

Products Guide

FOG Components

IMU Systems

FOG Devices

RLG Devices

FOG Instruments

Application

Electro-Optical Surveillance systems

Fire Control systems

2016 NEW VERSION

Description



FOGPhotonics's FOGLP-2006-1576-5 is a compact OEM Fiber Laser Rangefinder designed for medium and long distance measurements to static or moving targets in dynamic environments.

It is the ideal system which fits the Size, Weight and Power (SWaP) requirements to be easily integrated into Land and Naval EO Surveillance and Fire Control solutions. FOGPhotonics's FOGLP-2006-1576-5 Fiber Laser Rangefinder designed with eye safe laser, The range as far as 30km , The accuracy is ± 1 m.

Optical specifications

Characteristics	Value	unit	Comments
Wavelength	1576	nm	
Range	200~30000	m	
Accuracy	± 1	m	
Multiple targets	3	-	On targets with 85% refl ectivity (*)

Measurement rate	1-5	HZ	
Divergence	0.8	mrad	
Extinction	35	dB	
Work mode			Working 20s, rest 20s
Pulse energy	30	mJ	
Receiving antenna view field	1.6	mrad	
Energy instability %	5	%	

Electrical specifications

Characteristics	Value	unit	Comments
Communication interfaces			RS422
Operating modes			Emission & Stand-by (**)
Measurement modes			Single shot, burst & continuous
Power consumption	100	W	
Supply voltage	24-32	V	
Heat dissipation method			Natural cooling

Mechanical and environmental specifications

Characteristics	Value	unit	Comments
Dimensions (W x H x D)	290x200x145	mm	
Weight	8600	g	
Operating temperature	-35~+55	°C	
Storage temperature	-40~+85	°C	
Transmit antenna size	φ 35	mm	
Receiving antenna size	Φ 90	mm	

Reliability

Characteristics	Value	unit	Comments
pulses	10×10^7	Hours	
MTBF pulses	2×10^7	Hours	
MTTR h	2	Years	

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