

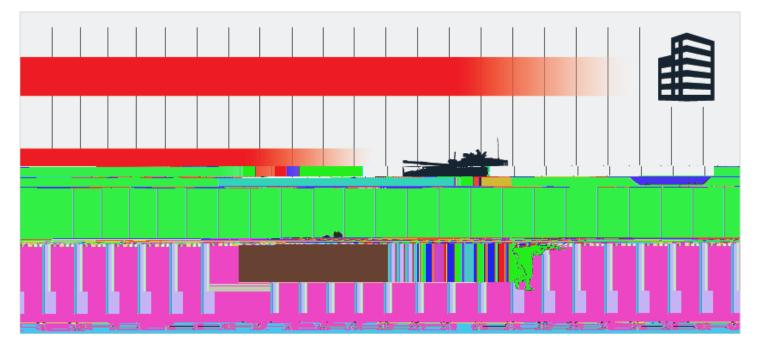
## **DIODE-PUMPED EYE-SAFE LASER RANGE FINDER**

**DP-ELRF V** 

	System	
	Ma Range	See Figur
	Min Range	50 m
	Transmitter Boresight Accurac (relative to nominal emission a is)	± 200 μ
	MTBF	1,500 hrs
	Laser	
	Wavelength	1535 nm
	Class	Class 1 IA
	Pulse Rate	4 Hz Coi
	Beam Divergence	Note: 1
	Energ Output	Note: 1
	Pulse Width	Note: 1
	Boresight Projector	
	Wavelength	Visible
The Diode	der 1969-FfRF) V employs	1.0 mra
0	Receiver	
the latest		2 m
Using a die	odeapenRpeedrepbium: glass	2 m
Using a die laser trans	od <b>eapampeodute</b> pbium: glass Range Accurac	50 to 300
Using a die laser trans	od&apsempeeduevolum: glass Range Accurac ver <sub>R</sub> the DgrELRF V provides	50 to 300 First / Sec
Using a did laser trans APD receiv high-pulse	Dd&apganRpæduterbium: glass Range Accurac Ver <sub>R</sub> thge DgrcELRF V provides Multi-Target Discrimination	50 to 300 First / Sec 25 m
Using a did laser trans APD receiv high-pulse	Ange Accurac Ver <sub>R</sub> thge DgitELRF V provides Multi-Target Discrimination ents, and longer ranging Discrimination Provides divergence	50 to 300 First / Sec 25 m Note: 1
Using a did laser trans APD receiv high-pulse requirement pulses. Th and larger	Ddeapernproductivebium: glass Range Accurac /ergatige DegitELRF V provides Multi-Target Discrimination ents, and longer ranging Detector Type Low boom divergence Receiver Apenitive provide	50 to 300 First / Sec 25 m
Using a did laser trans APD receiv high-pulse requireme pulses. Th and larger for more a	Ange Accurac ver <sub>R</sub> the Der ELRF V provides Multi-Target Discrimination Ints, and longer ranging Receiver Sensitivit Receiver Sensitivit Receiver Sensitivit Contrale ranging on smaller	50 to 300 First / Sec 25 m Note: 1 Note: 1
Using a dia laser trans APD receiv high-pulse requirement pulses. The and larger for more a targets. Co	Code apter Receiver Sensitivit Range Accurac /er <sub>R</sub> the Der LRF V provides Multi-Target Discrimination ents, and longer ranging Detector Per Receiver Sensitivit Receiver Sensitivit Ceffrate ranging on smaller Weight	50 to 300 First / Sec 25 m Note: 1 Note: 1
Using a dia laser trans APD receive high-pulse requirement pulses. The and larger for more a targets. Co rates, the	Defension of the second	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm (
Using a did laser trans APD receive high-pulses requirement pulses. The and larger for more a targets. Con rates, the long-range	Defense Accurac verRahge DgiteLRF V provides Multi-Target Discrimination ents, and Longer ranging Detector The Receiver Sensitivit Receiver Sensitivit DPDEteRFioMs an excellent Environmental Enclosure	50 to 300 First / Sec 25 m Note: 1 Note: 1
Using a did laser trans APD receiven high-pulses requirement pulses. The and larger for more at targets. Con rates, the long-rangent systems et	Ddeaptempeeduterbium: glass Range Accurac /errthe DegitELRF V provides Multi-Target Discrimination nts, and longer ranging Low beam divergence Receiver Sensitivit Certrale ranging on smaller Weight DPDEteRFioMs an excellent Environmental Enclosure Velectorcamall targets, such	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm ( Open fram
Using a did laser trans APD receiven high-pulses requirement pulses. The and larger for more a targets. Con rates, the long-rangent systems end as missiles	Defense Accurac VerRithe Digit ELRF V provides Multi-Target Discrimination ents, and longer ranging Detector of the company Receiver Sensitivit Methanical anging on smaller Weight DPDEteRFIGNIS an excellent Environmental Enclosure Velocifications Protocol	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm ( Open fran
Using a did laser trans APD receiven high-pulses requirement pulses. The and larger for more a targets. Con rates, the long-rangent systems end as missiles	Defermine and a second and a second and a second	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm ( Open fran RS-422 (R 12 VDC to
Using a did laser trans APD receiven high-pulses requirement pulses. The and larger for more a targets. Con rates, the long-rangent systems end as missiles	Deleaner Reselutive bium: glass Range Accurac VerRithe Digit ELRF V provides Multi-Target Discrimination Ints, and longer ranging Delector Peet Receiver Sensitivit Receiver Sensitivit Contraine Panging on smaller Weight DPD Etter Fidners an excellent Environmental Enclosure Velocificarmall targets, such Communications Protocol Communications Protocol	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm ( Open fran
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Using a did laser trans APD receiv high-pulse requireme pulses. Th and larger for more a targets. Co rates, the long-range systems e as missile or Class 3	Deleaner Reselutive bium: glass Range Accurac VerRithe Digit ELRF V provides Multi-Target Discrimination Ints, and longer ranging Delector Peet Receiver Sensitivit Receiver Sensitivit Contraine Panging on smaller Weight DPD Etter Fidners an excellent Environmental Enclosure Velocificarmall targets, such Communications Protocol Communications Protocol	50 to 300 First / Sec 25 m Note: 1 Note: 1 5.22 kg 253 mm ( Open fran RS-422 (R 12 VDC to

NOT in combination with the atmospheric and target characteristics shown, provide the user with the achievable range performance shown in Figure 1 as shown on page 2.

A global leader in defense technologies and services, L3Harris is an ISO 9001 certified full-service designer and manufacturer of military grade Eye-Safe Laser Range Finder, Laser Designator, and Multi-Function Laser Systems.



## Figure 1: Ranging Performance Using Various Targets (FAR 0.1 %)

## **PRODUCT OVERVIEW**

The DP-ELRF-V provides up to 50 km ranging capability, 3.2 mJ nominal energy, pulse repetition options of 1, 4, or 10 Hz, and TE-cooled Avalanche Photodiode Detector (APD). This laser range finder is ANSI Z136.1-2007 Class 1 or Class 3R Eye-Safe. Providing kinematic-mounting interface for reliable boresight retention, it also has a single-connector interface for power and communication.

## Diode-Pumped Eye-Safe Laser Range Finder

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