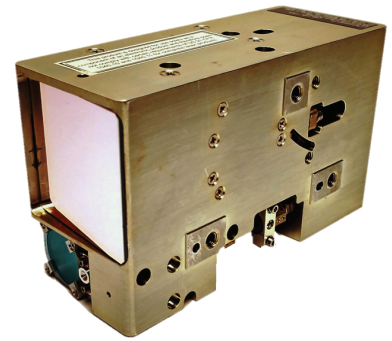




L3HARRIS™
FAST. FORWARD.

COMPACT POINTER HIGH ACCURACY RANGE FINDER (CPHAR)

CPHAR	
System	
Max Range (NATO Target)	13 km
Min Range (NATO Target)	50 m
Boresight Accuracy	< 150 μ Rad (to mounting datum)
Boresight Retention over Temp	< 50 μ Rad/20 °C (co-boresight to 830 nm source)
MTBF	> 10,000 hrs (GMCV)
Laser	
Wavelength	1535 nm \pm 5 nm
Class	Class 1
Pulse Rate	Up to 5 Hz
Shot Life	> 1,000,000 shots
Receiver	
Range Resolution	1.0 m
Range Accuracy	\leq 1.5 m RMS
Range Logic	First/Last/Best
Multi-Target Discrimination	20 m
Boresight Source	
Wavelength	830 nm \pm 20 nm
Boresight Alignment	< 50 μ Rad
Mechanical	
Weight	< 2.0 lb
Dimensions	2.1" x 3.1" x 5.1"
Environmental Enclosure	Open frame
Electrical	
Communication Protocol	RS-485
Input Voltage	16.0 \pm 0.5 VDC
Power Consumption	35 W
Environmental	
Operating Temp	-40 °C to +71 °C
Environmental Standards	MIL-STD-810G



The CPHAR is L3Harris' next generation of low-cost mature diode-pumped laser range finders sized at 2.1 inches x 3.1 inches x 5.1 inches, weighing less than 2.0 lb and consuming less than 35 W. Designed for ground vehicle applications that support repetition rates up to 5 hertz with extended standoff ranges.

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 finders, laser designators and multi-function laser systems.

The CPHAR provides up to 16 km ranging capability with 1.5 m RMS accuracy, diode-pumped Erbium glass and pulse repetition rates from single shot to 5 Hz. CPHAR enables the Cross Platform Pointing Laser Receiver (CPPLR) in a low-observable wavelength while maintaining Class 1 eye-safety requirements.



The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement.

CPHAR Laser Range Finder

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This document contains general capabilities information that is not defined as controlled technical data under ITAR Part 120.10 or EAR Part 772.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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