



ELIP

Eyesafe Laser Integrated Periscope



The Eyesafe Laser Integrated Periscope (ELIP) is an integral part of armored vehicle turret Fire Control Systems (FCS). It provides the commander and gunner with precise target distance information and magnified optical day vision which leads to high "first round hit" probability.

The ELIP's primary function is to provide accurate target distance information via the Eyesafe Laser Rangefinder (ELRF). The ELRF is comprised of a high repetition, accurate, laser transmitter assembly integrated with a highly sensitive laser receiver assembly. It offers 200m to 9,995m target distance measurement capability and the four digit range data is displayed (via the SIPC) on the gunners/commanders displays.

The ELIP's other function is to provide the gunner with magnified day vision through the 8x or 12x Direct View Optics (DVO). This allows the gunner to see long range scene and target information which is not visible with the naked eye.

Features:

- Eyesafe laser rangefinder
- Direct view optics: 8x or 12x
- In full-rate production
- Weight: 15 lbs.
- >750 Fielded to date
- Laser protective optics



ELIP lab production



ELIP Unit

Technical Information

- Transmitter (Er:Glass): 1.54 μ m
- Pulse Energy: >8mj
- Repetition Rate: 1/6pps, 1pps burst
- Beam Divergence <1mRad
- Receiver Range: 200 to 9,995 meters
- Accuracy: \pm 5m
- Logic: First/Last/BIT
- Extinction Ratio: >36dB
- Optical Magnification: x8 or x12
- Boresight Adjustment: \pm 5mRad
- Dimensions: 219x130x192mm
- Weight: 6kg
- Power: 24VDC (MIL-STD-1275A)
- Power Consumption: <40W
- Operation Temperature: -32°C to 62°C
- Storage Temperature: -45°C to 71°C
- Vibration: MIL-STD-810
- Shock: 30g, 11msec.
- Operation Altitude: 10,000 feet
- Storage Altitude: 30,000 feet

ADS

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