



FireLight™ is a LiDAR sensor tailored to custom implementation on small missiles, grenades and UAS to achieve precision Airburst capability. It provides trigger input to fuze based on standoff, directional proximity, or HoB distance.

40-mm Round
Implementation



UAS Variant
Approx 2" x 1" x 1"



In addition to Standoff/HoB, also well suited to Terrain Mapping, Altimetry, Counter-Defilade

Range capability of up to 10 ft. (> with larger aperture variants)

Range precision is on the order of 1-inch
- Independent of range set-point
or target reflectance

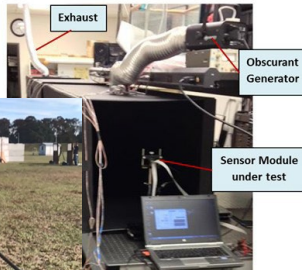
High sampling rate combines with speed-of-light samples to maintain high-precision at closing speed engagements > Mach-1

Variants depicted do NOT represent the degree of miniaturization ultimately achievable

For sales information contact:

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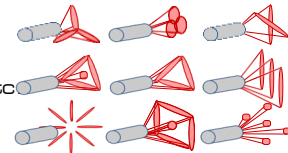
Features

FireLight™ has undergone extensive in-house testing during development including:

- Reverse Ballistic to refine dynamic performance
- Obscurant Chamber to address target signal attenuation and aerosol backscatter false trigger
- 40mm Firing Range to assess ballistic shock and validate dynamic performance

FireLight™ Characteristics

- Variants range from single channel short range (≤ 3 ft; lowest possible cost) to multi-channel at medium range (≤ 10 ft) or long range (≤ 30 ft)
- Typical Electrical Interface: Power, Enable, Trigger-Out, Mode Select
 - Advanced power management limits power draw to ≤ 0.6 W when fully active
- Multi-channel variants employ DTF (Distributed Tailored Field) system architecture for interrogation field
 - Supports target localization, engagement geometry determination, etc



■ ◆ □ In production for UAS applications

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