

# PRECISION WEAPON SYSTEMS

## SMART SEMI-ACTIVE LASER AND MULTI-MODE MUNITIONS



### FEATURES

- Platform flexibility
- High Accuracy
- Modular
- Effective against static and high-speed moving targets
- No gimbals or moving parts
- Small size and low weight
- Competitively selected for U.S. weapons programs
- Affordable

### WEAPON SYSTEMS

- Semi-Active Laser Seeker
- Imaging Infrared Seeker
- RF Seeker
- Automatic Target Recognition Seeker
- Multi-mode Seeker
- Laser Joint Direct Attack Munition (LJDAM)/  
Laser Small Diameter Bomb Seeker
- Hatcher
- Griffin

### AFFORDABLE COMBAT-PROVEN PRECISION

Warfighters need the technical edge to win decisive engagements in modern combat. Our weapon systems deliver this edge with combat proven precision and affordability. Currently, our precision-guided laser seekers are deployed in multiple operations worldwide.

### RESEARCH AND DEVELOPMENT

Our guided munitions research and development team is committed to providing cost effective, cutting edge semi-active laser (SAL) and multimode strapdown seekers for precision guided weapons. Our advanced development staff includes world-class optical science, software and hardware experts with decades of experience. Since the inception of the Lonestar line of strapdown seekers, Elbit Systems of America has continued the tradition of developing mission effective products with ever evolving technology.

Please reach out to our guided munitions team to find out more on our RF, multi-mode, and other new in development seeker technologies that we are currently working on.

This product contains non-U.S. origin technical data.

LASER JOINT DIRECT ATTACK MUNITION (LJDAM) / LASER SMALL DIAMETER BOMB SEEKER

- Thousands fielded by the U.S. & allied countries
- Retrofittable to existing stocks
- Static, moving or maneuvering targets
- Deployed in multiple theaters of operation
- Kitted for easy assembly
- Performance from -54° C to +74° C

TECHNOLOGY	SEMI-ACTIVE LASER RECEIVER
WEIGHT(NO SUPPORT CUP)	5.62 LBS
POWER CONSUMPTION	1.5 A AVERAGE/2.0 A MAXIMUM
OPERATING TEMPERATURE RANGE*	-54°C TO +74°C
LINEAR FIELD OF VIEW	30°
FIELD OF REGARD	50°
WAVELENGTH	1064 NM
VOLUME	11.9 IN3

\*Successfully measured at <0.1" government labs

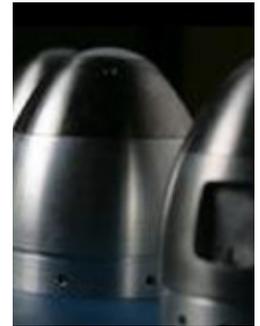


LONESTAR II

- Battle proven
- Multi-platform qualification
- Exceptionally low circular error probability
- Field-ready, always reliable
- Unbeatable performance, exceptional cost

**Lonestar II W** — For customers that require an enlarged engagement envelope, the LSII-W is also available. This provides a ±25° linear FOV while maintaining the other high performance characteristics.

TECHNOLOGY	SEMI-ACTIVE LASER RECEIVER
WEIGHT(NO SUPPORT CUP)	1.15 LBS
POWER CONSUMPTION	1.0 A AVERAGE/2.0 A MAXIMUM
OPERATING TEMPERATURE RANGE	-40°C TO +72°C
LINEAR FIELD OF VIEW	30°
FIELD OF REGARD	50°
WAVELENGTH	1064 NM
VOLUME	11.9 IN3



LONESTAR III

- Temperature independent
- Increased detection range
- Compact design latest generation
- Semi-active laser
- Technology peak performance at high altitude
- Minimal power requirements
- Improved sensitivity
- Suited for high speed applications

TECHNOLOGY	SEMI-ACTIVE LASER RECEIVER
WEIGHT(NO SUPPORT CUP)	0.96 LBS
POWER CONSUMPTION	1.3 A AVERAGE/2.11 A MAXIMUM
OPERATING TEMPERATURE RANGE**	-54°C TO +72°C
LINEAR FIELD OF VIEW	30°
FIELD OF REGARD	50°
WAVELENGTH	1064 NM
VOLUME	12.0 IN3

\*\*Successfully tested to -54°C



## LONESTAR IV

- Dual mode SAL/IR
- Strap down system
- Premium performance
- Moving target capability

TECHNOLOGY	SEMI-ACTIVE LASER RECEIVER/IMAGING INFRARED
WEIGHT(NO SUPPORT CUP)	2.18 LBS
OPERATING TEMPERATURE RANGE	-54°C TO +72°C
SAL LINEAR FIELD OF VIEW	30°
SAL FIELD OF REGARD	50°
SAL WAVELENGTH	1064 NM
IIR SPECTRAL RESPONSE	8-12 μM
IIR FIELD OF VIEW	10° VERTICAL X 13° HORIZONTAL
ARRAY SIZE/PIXEL SIZE	320 X 240, 17 μM



## LONESTAR VI

- Smallest volume of the series
- 5 cm diameter and 6 cm length
- Easy integration into large & small weapon systems
- High performance at low cost
- Integrates lean manufacturing techniques while maintaining KPPs

TECHNOLOGY	SEMI-ACTIVE LASER RECEIVER
WEIGHT(NO SUPPORT CUP)	6 OZ
POWER CONSUMPTION	0.3A AVG/ 0.4A MAX @28V
OPERATING TEMPERATURE	-50°C TO +72°C
LINEAR FIELD OF VIEW	±15°
TOTAL FIELD OF REGARD	±25°
ANGLE ACCURACY	< 0.25°
ANGLE NOISE	< 0.17°
WAVELENGTH	1064 NM
VOLUME	6.22 IN <sup>3</sup>

