

INTEGRATED LIGHTWEIGHT TRACKING MOUNT (LTM)



Delivering High Quality Imagery of Critical Missions

The L-3 Brashear integrated Lightweight Tracking Mount (LTM) is a small durable, highly reliable, highly accurate positioning system integrated with the latest High Definition (HD) sensor systems and data technology. The entire system is fully ruggedized for operation in the test range environment. The integrated LTM is supplied with an operator real time control station that can be locally or remotely controlled. Integrated LTM System is controlled via a centralized and fully customizable graphical user interface (GUI) that interfaces to the LTM, sensor systems, and video processing and management. The user controls have tactile feedback to enable the selection of functions without having to divert attention from the real-time servo tracking control of the system. The integrated LTM system provides both real time-space-position-information (TSPI) of tracked targets and storage of the data for post mission analysis.



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FEATURES

HD capability throughout the system

- Multi-sensor system
- Universal sensor mounting; Sensors are typically customer specified
- Choice of high resolution sensor formats
- Integrated fiber optic rotary joint allows HD video transfer while allowing continuous azimuth rotation
- Uncompressed/compressed HD video recording capable
- Synchronized time and position metadata is inserted as digital data into the HD-SDI or SDI data stream

Fully Integrated Operator Controller

- Local or remote operator station control
- No requirement for local LTM operator
- The LTM provides real-time site surveillance imagery of the LTM and the surrounding area
- Azimuth and elevation servo tracking control via an ergonomic joystick with tactile controls

Discrete Controls for Critical Functions

- Operator start/stop imagery recorders
- Slave acquisition
- Control of lens field of view and zoom

Lightweight Tracking Mount (LTM) Features:

- Continuous azimuth rotation
- Built in self leveling capability
- Fail safe brakes
- Full elevation dump capability
- Built in GPS
- Capable of on-site star calibration

Ruggedized Construction

- Fully weatherized, environmentally ruggedized sensor enclosures, optics, optical positioning system
- Designed to survive continuous outside exposure during both operating and non-operating periods.

Data Protection/encryption

- The integrated LTM can be interfaced through customer specified encryption equipment.
- The integrated LTM has removable type storage capability to quickly and efficiently declassify a system.
- The integrated LTM data product format can be modified to be fully compatible in range qualified post testing data processing systems.

L-3 Brashear

615 Epsilon Drive

Pittsburgh, PA 15238

Tel: 412.967.7700

Fax: 412.967.7973

Email: Sales.Brashear@L-3com.com

www.L-3com.com/Brashear

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