F-35 LIGHTNING II EOTS
Superior Targeting Capability
F-35 Lightning II EOTS

The Electro-Optical Targeting System (EOTS) is the world’s first sensor that combines forward-looking infrared (FLIR) and infrared search and track (IRST) functionality. As an affordable, high-performance, lightweight, multi-function system, EOTS provides precision air-to-air and air-to-surface targeting capability in a compact package.

Through EOTS, pilots have access to high-resolution imagery, automatic tracking, IRST, laser designation and rangefinding, and laser spot tracking at greatly increased standoff ranges. Integrated into the F-35 Lightning II’s fuselage with a durable sapphire window, the low-drag, stealthy EOTS is linked to the aircraft’s central computer through a high-speed fiber-optic interface.

Features

• Rugged, low-profile, faceted window for supersonic, low-observable performance
• Compact single aperture design
• Lightweight (<200 lbs), including window assembly
• Advanced sensor technology
• Air-to-surface/air-to-air FLIR tracker and air-to-air IRST modes
• Modular design for two-level maintenance to reduce life cycle cost
• Automatic boresight and aircraft alignment
• Tactical and eye-safe diode-pumped laser
• Laser spot tracker
• Passive and active ranging
• Highly accurate geo-coordinate generation to meet precision strike requirements