

**LASER RANGEFINDER
RECEIVERS & COUNTERS**

**LASER DESIGNATOR
SPOT LOCATOR**



Analog Modules, Inc.
a HEICO company

*Laser Electronics
for Military Applications*

ISO 9001
CERTIFIED



**LASER
ELECTRONICS**

**CUSTOM
ASSEMBLIES**

**LASER
SPOT TRACKERS**

**NEXT GENERATION
MILITARY SENSORS**

ISO 9001
CERTIFIED

-  **LASER RANGEFINDING**
-  **TARGET DESIGNATION**
-  **LASER SPOT TRACKING**
-  **LONG DISTANCE SENSING**
-  **HIGH POWER LASER DRIVERS**

**FOR AIR, SHIP, MISSILE,
MAN PACK, and VEHICLE ENVIRONMENTS**

Founded in 1979, Analog Modules, a division of HEICO Corporation, is located in Longwood (Orlando), FL. AMI designs, develops, and manufactures a wide range of products primarily for the laser and electro-optics industries serving applications in medical, military, scientific, and industrial markets. We are an ISO 9001 certified company committed to the production of high quality, reliable products and total customer satisfaction.

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Over 30 Years of Production and Design Experience

Rangefinding, target designation, laser spot tracking, laser power supplies and other custom sensing and laser electronics applications.

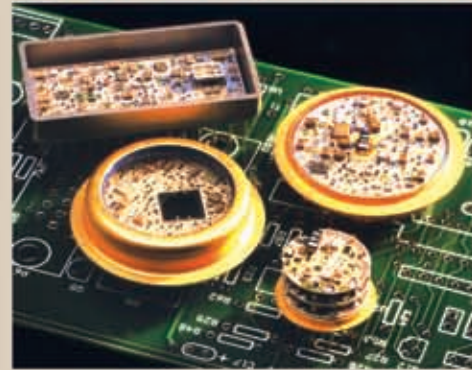
For over 30 years, Analog Modules, Inc. (AMI), an ISO 9001 certified company, has been a leader in the design and manufacture of high performance rugged sensor and laser electronics modules for military applications. AMI's military products are used in Air, Ship, Man Pack, Ground Vehicle, and Maritime environments for applications including:

- Target Designation
- Ground Illumination for terrain mapping
- Laser fusing
- IR Illumination
- Laser Rangefinding
- Wire Avoidance
- Laser Warning/Countermeasures
- Mine Detection

Many of these products are qualified to military shock, vibration, temperature, and radiation-hardened requirements. Units are manufactured to the ANSI J-STD-001 Class 3 workmanship standard.



Laser Rangefinder Receivers



Over 25,000 receivers have been fielded in handheld, tank, ground-mobile, TUAV, and airborne applications. AMI's patented technology provides superior performance:

- Maximum Sensitivity
- Wide Dynamic Range
- Rapid Recovery from Overload
- Multiple Target Discrimination
- Optimized for Visible to 1.7mm Wavelengths
- Wide Range of Pulsewidths

AMI's next generation of high-performance receivers are designed to meet more stringent requirements of multiple target resolution of closely spaced targets with improved range performance.

Successfully completed projects include: The design and manufacture of 128-channel InGaAs PIN linear array processor electronics for wire avoidance applications; High bandwidth InGaAs APD receiver systems with constant fraction discrimination for high range accuracy and pulse discrimination, which are required for detection of targets cloaked behind camouflage.

Contact AMI to discuss your specific requirements.

SPOTTR

SPOTTR (SPOT Tracking Receiver) allows forward observers to detect and decode reflected energy from airborne or ground-based laser designators at ranges to 20km, greatly increasing combat capability. Benefits include:

- Visual targeting confirmation
- Reduced target confirmation time
- Minimized targeting errors
- Reduced risk of fratricide and collateral damage

Assures the Warfighter that ordnance will be delivered to the intended target.



Laser Spot Tracker Receiver/Processor

AMI's engineers have been involved in the design of electronics for laser spot tracker receivers since 1968. These designs have been proven in the Jaguar, Harrier, F16, F18, MRCA aircraft, and advanced missile systems. Patents held in this field cover target identification methods and tracker receiver design. Systems have been developed for both "bang-bang" steering data, and linear processing for proportional amplitude control, with decoding and smart processing for correct target recognition.

AMI's new products are miniature in size but exhibit unsurpassed sensitivity and custom capabilities.



Capacitor Charging Power Supplies

For flashlamp pumping, AMI manufactures a variety of high-density capacitor charging power supplies and pulsed driver products. AMI's vast experience in this field has led to advanced capacitor charging power supply designs:

- Extremely high power densities
- Lightweight
- Meet demanding shock, vibration and temperature testing requirements of MIL-STD-810

Products can be configured for power inputs ranging from low voltage DC (3.3V battery, 18-32VDC with superimposed transients, etc.) to 120VAC, 400Hz, 1Ø for aircraft deployed applications.

AMI also designs and manufactures complete pulsed flashlamp driver systems. These products can include integrated:



- Capacitor Charging Power Modules
- Pulse-Forming Networks
- High Speed Switching Elements
- Lamp Ignition Circuits
- Fixed or Variable Pulsewidth Operation
- Variable pulse energy and pulse repetition rate

Options include pseudo-simmering, soft-start current limiting, Q-Switch trigger outputs, and microprocessor control. AMI's designs are simple in concept for ruggedness and reliability, yet innovative in implementation for high density packaging and high efficiency.



Pockels Cell Drivers

AMI designs and manufactures Pockels' cell drivers for military, medical and industrial applications.

- Fast, reliable, high voltage switching
- Compact Form Factors
- PCB Assemblies for installation into small areas
- Rugged Packages available for harsh environments

Custom designs are available for OEM applications.



High Power Laser Diode Drivers



AMI offers a complete line of laser diode driver systems and modules for military applications including direct illumination and diode pumping of both rangefinders and designators. Patented techniques allow:

- Narrow, High-Power Pulses
- High Repetition Rates and/or CW Output
- The Smallest Footprints Available

For applications requiring turn-key operation, AMI offers the 8800D and 880D Series Laser Diode Controllers for pulsed and CW applications.