

LIVAR® M506

Gated SWIR Camera System



LIVAR® M506
Camera

The LIVAR® M506 Gated SWIR Camera System is ideal for covert operations and target identification, supporting lasers from 1.0 – 1.6 μm . Cost-effective, compact and lightweight, this range-gated, two-dimensional imaging camera operates in the eye-safe Short Wave Infrared (SWIR) band, provides day and night coverage, and supports mounted and dismounted operations. The camera system includes the camera, High Voltage Power Supply (HVPS) and Thermoelectric Cooler Controller (TECC). An optional high-PRF version is available that allows the use of low-power, high-PRF (Pulse Repetition Frequency) diode lasers with the camera in accumulation mode.

Working in conjunction with a range detector, the LIVAR® M506 system sets the range gate for the target location to provide a stream of digital images optimized for that range. The camera can be set to active master, active slave, or passive imaging modes to accommodate a variety of applications.

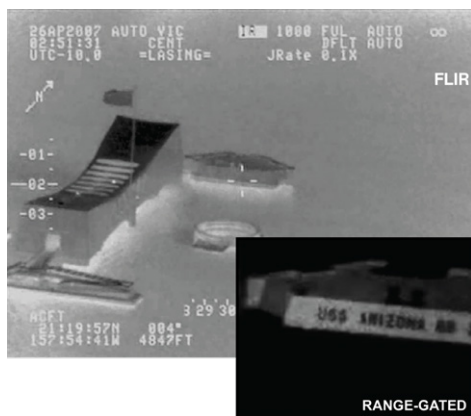
The LIVAR® M506 system offers system integrators an advanced long range surveillance camera at a low cost.

APPLICATIONS

- Airborne, ground and maritime
- Long range reconnaissance and surveillance

FEATURES/BENEFITS

- SWIR response from 0.95 – 1.65 μm supports multiple laser wavelengths
- Small, rugged sensor for demanding applications
- Photon shot noise limited due to electron bombarded gain
- Provides imagery for positive standoff combat identification
- Penetrates battlefield obscurants, haze, windshields, and windows
- Optional high-PRF version allows the use of low-power, high-PRF lasers



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CONTACT

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EVSKC02

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TECHNICAL SPECIFICATIONS

SENSOR PHOTOCATHODE	Transferred electron photocathode
CAMERA RESOLUTION	640 × 512 pixels (8.576mm × 6.861mm imager)
SENSOR FORMAT	2/3"
PIXEL SIZE	13.4 μm
SPECTRAL RESPONSE	950 nm to 1650 nm
QUANTUM EFFICIENCY (QE)	≥ 25% @ 1.55 μm
LIMITING RESOLUTION	≥ 28 lp/mm
DARK CURRENT	≤ 100 nA/cm ²
DYNAMIC RANGE	≥ 48 dB
PERCENT GOOD ELEMENTS	≥ 99.8%
FRAME RATE	≤ 30 fps at full camera image format. Image can be windowed for higher frame rates.
VIDEO OUTPUT	CameraLink® Base
CONTROL INTERFACE	RS-232, RS-422 & LVDS
SELECTABLE CAMERA MODES	Active Master, Active Slave, Passive Imaging
HVPS GATE	Minimum gate width ~ 70 ns, gate rise & fall time ~ 65 ns.
HIGH-PRD OPTION	PRF up to 7,500 Hz with camera in accumulation mode. Contact factory for ordering information.
INPUT VOLTAGE	Camera: 12 VDC, HVPS: 12 VDC, TECC: 6 VDC
POWER CONSUMPTION	Camera: 3 W, HVPS: 1.2 W, TECC: 22.2 W
DIMENSIONS, W × H × D	Camera: 1.8" × 2.6" × 2.8", HVPS: 2.0" × 2.0" × 1.4", TECC: 2.0" × 1.8" × 0.5"
WEIGHT	Camera: 280g, HVPS: 159g, TECC 118g
OPERATING TEMPERATURE	-40°C to +70°C, TECC required above +20°C. Contact factory for specific TECC set points.
STORAGE TEMPERATURE	-51°C to +71°C
OPERATING ALTITUDE	≤ 15,000 ft
OPERATING SHOCK	20 g's peak value, 11 ms duration, 3 axes
OPERATING VIBRATION	0.040 g ² /Hz from 5 to 2,000 Hz
INCLUDED SOFTWARE	Graphical User Interface (GUI) with ability to set camera mode

NOTE: This product is under the export control of the Office of Defense Trade Controls, U.S. Department of State, and is subject to the International Traffic in Arms Regulations. Transshipment to any destination outside of the United States without the knowledge and consent of the Office of Defense Trade Controls is strictly prohibited.

ORDER INFORMATION

LIVAR® M506 Camera
CONTACT FACTORY

LIVAR® HVPS
446531

LIVAR® TECC
CONTACT FACTORY

LIVAR® Accessory Kit
(includes accessories below)
446323

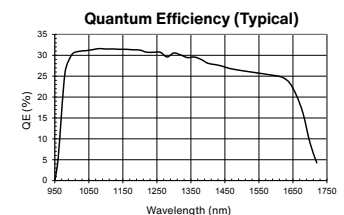
LIVAR® Cable, Power-Serial
446923

LIVAR® Cable, TECC
660801

LIVAR® HV Cable (Qty 2)
1-001033

CameraLink® Cable Adapter
446910

CameraLink® MDR Cable
1-000711



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