

ThermoSight™ LIRC™

HIGH PERFORMANCE LONGWAVE
QUANTUM WELL SENSOR FOR MILITARY
VEHICLE APPLICATIONS



APPLICATIONS

ARMORED VEHICLES
TARGET ACQUISITION
FIRE CONTROL
FORWARD OBSERVATION
TRAINING RANGE
RECONNAISSANCE
PERIMETER SECURITY

FEATURES

Purpose built, mid and large format
Quantum Well Photodetector
Dual field of view optics
Rugged and compact
Auto focus and par focus
STACE™ digital image enhancement
Digital and analog outputs
It's all FLIR inside

BENEFITS

All the benefits of longwave QWIP with crisp imagery in any climate and resistance to laser aggression weapons
Get fast situational awareness and long range detection, approaching 10 km on 2.3 m targets
Designed for battlefield use and easy integration into vehicles and a variety of defense articles
Maintains crisp imagery without constant user input, critical to reducing workload
One of several image enhancement features available only from FLIR, delivering crisp imagery regardless of scene dynamics, including cases where extremely hot targets reside in an otherwise cold isothermal scene
Common analog outputs for legacy applications and digital video for maximum fidelity
FLIR controls the entire supply chain on the critical technology inside ThermoSight systems, ensuring fast service and long term support



Crisp thermal imagery, regardless of scene dynamics



LIRC is ideal for to military imaging applications



ThermoSight™ LIRC™

THERMAL IMAGING PERFORMANCE

Sensor type	320 x 240 or 640 x 480 QWIP
Number of fields of view	2
Wide FOV	10° x 7.5°
Narrow FOV	3.5° x 2.6°
Wide FOV (640 x 480)	13° x 10°
Narrow FOV (640 x 480)	4.6° x 3.5°
E-zoom	2x, 4x with digital interpolation
Spectral band	7.5-9.3 μm

SYSTEM FEATURES

STACE™ digital image enhancement

OUTPUTS

Video NTSC or PAL Video, 14 bit digital data

POWER

Power requirements 24 V DC, 24 V DC MIL-STD-1275D, via power adapter
 Power consumption < 45 W (average)

ENVIRONMENTAL

Operating temp -30°C to 60°C
 Storage temp -40°C to 70°C

DIMENSIONS, WEIGHT & MOUNTING

Dimensions 260 x 150 x 125 mm (10.2 x 5.9 x 4.9 in.)
 Weight <5.5 kg (12.1 lbs)

INTERFACES

Command and Control RS 422, Ethernet

CORPORATE HEADQUARTERS

FLIR Systems, Inc.
 27700 SW Parkway Ave.
 Wilsonville, OR 97070
 PH: +1 800.727.3547

BOSTON

FLIR Systems, Inc.
 25 Esquire Road
 North Billerica, MA 01862
 PH: +1 800.464.6372

HUNTSVILLE

FLIR Systems, Inc.
 Huntsville, AL USA
 PH: +1 256.325.3547

PITTSBURGH

FLIR Systems, Inc.
 Freeport, PA USA
 PH: +1.724.295.2880

WASHINGTON, D.C.

FLIR Systems, Inc.
 2800 Crystal Drive, Suite 330
 Arlington, VA 22202 USA
 PH: +1 703.416.6666

EUROPE

FLIR Systems Ltd.
 West Malling, Kent
 United Kingdom
 PH: +44.1732.220011

CANADA

FLIR Systems Ltd.
 Burlington, ON
 Canada
 PH: +1 800.613.0507

SWEDEN

FLIR Systems AB
 Täby, Sweden
 PH: +46.8.753.2500

MIDDLE EAST

FLIR Systems Middle East, FZCO
 Dubai Airport Free Zone
 PH: +9714.299.6898

www.flir.com/GS

STACE™
 Digital Image Enhancement

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. ©2010 FLIR Systems, Inc. Specifications are subject to change. Check website: www.flir.com/GS 06012010

