

FLIR GasFindIR LW

Imaging and optical data

Field of view (FOV) / Minimum focus distance
Focal length
Spatial resolution (IFOV)
F-number
Thermal sensitivity/NETD
Image frequency
Focus
Digital zoom
Digital image enhancement

22° × 16° / 0.2 m (0.66 ft.)
25 mm (0.98 in.)
1.2 mrad
2.3
35 mK @ +30°C (+86°F)
Max 25 Hz/30 Hz (PAL/NTSC)
Manual
2x and 4x Digital Zoom
High Sensitivity Mode (HSM)

Detector data

Detector type
Spectral range
IR resolution

Focal Plane Array (FPA), cooled InSb
3–5 μm
320 × 240 pixels

Electronics and data rate

Integration time

Selectable: 1–64 ms

Image presentation

Viewfinder
External display

Built-in viewfinder, 800 × 600, OLED, B/W
Via personal video recorder

Video recording

Video recording type

Recording of video sequences to personal video recorder

Data communication interfaces

Serial communication, purpose
Serial communication, standard
Serial communication, connector type
Video, standard
Video, connector type

Command and control
RS-232
7-pin Fischer connector
CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
BNC (CVBS)

Power system

Battery type
Battery voltage
Battery operating time
Charging system
AC operation
Power

Li Ion
7.5 V
Approx. 8 hours at +25°C (+77°F) ambient temperature and typical use
Included battery charger (AC adapter or 12 V from a vehicle)
Via 2-pin Fischer connector (7–24 VDC)
< 6 W typically

IR lenses (optionally available*)

100 mm/5° lens, field of view (FOV)
50 mm/11° lens, field of view (FOV)

5.5° x 4°
11° x 8°

Environmental data

Operating temperature range
Storage temperature range
EMC

–15°C to +50°C (+5°F to +122°F)
–40 °C to +70 °C (–40 °F to +158 °F)
EN 61000-6-2:2005 (Immunity)
EN 61000-6-3:2007 (Emission)
FCC 47 CFR Part 15 Class B (Emission)

Physical data

Camera weight, incl. lens and battery
Camera size (L × W × H)
Tripod mounting

2.38 kg (5.25 lb.)
262 x 158 x 132 mm (10.3 x 6.2 x 5.2 in.)
UNC 1/4"-20

Scope of delivery

Packaging, contents

ThermaCAM GasFindIR HSX Camera, 25 mm lens cap, Optical cleaning kit, Neck strap, Battery charger, 2 ea., Li Ion battery, 3 ea., AC-to-DC power supply, User's Manual, Hard transport case, Video cable, Personal Video Recorder (PVR) and battery, A/V Cable for Personal Video Recorder

FLIR GasFindIR HSX

Imaging Performance

Field of view/min focus distance

Focus near
Focusing
Thermal sensitivity (N.E.T.D.)
F-number

Detector

Type
Spectral Range
Integration time

Power Input

Voltage
Power Consumption

Fixed lens 11° x 8.25° with fixed 50 mm lens
*GasFindIR LW with interchangeable lenses optionally available**
< 1m
Manual
35 mK @ 30° C
2.0

Focal Plane Array (FPA), QWIP, 320x240 pixels
10-11 μm
16 ms, user selectable

6V
<8W typ

Physical Characteristics

Weight (with battery and lens)
Color
Size with 50mm lens (LxHxW)
Interface

Approx. 2.4 kg
Black
300mm x 132mm x 152mm
Tripod mounting UNC 1/4", rotation safe

Available Lenses

Field of View

25 mm (22°) *optionally available
50 mm (11°) (standard)
100 mm (5.5°) *optionally available

Environmental

Operating temperature range
Storage temperature range
EMC

–15° C to +40° C
–30° C to +50° C
EN 55011:1998 (Emission)
EN 61000-4-2:1995 (Electrostatic Discharge)
EN 61000-4-3:1996 (Electromagnetic Field Immunity)
EN 61000-4-3:1993 (Magnetic Fields)

Image Specifications

Image storage
Image out
Camera control
Connectors/function
Frame rate

Hand-held personal video recorder, commercial, off-the-shelf
CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
RS-232, push-button on camera
C-video, PAL, NTSC, power connector and Serial RS-232
50 Hz/25 Hz, user selectable for cold/temperature environments
(60 Hz/30 Hz version available as well)

GasFindIR LW is lab tested to detect:

Not tested but assumed detectable.

Sulfur Hexafluoride, Anhydrous Ammonia; Ethyl Cyanoacrylate "Superglue", Chlorine Dioxide, Acetic Acid "Vinegar", FREON-12, Ethylene, Methyl ethyl ketone (MEK) Acetyl Chloride, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Bromomethane, FREON-11, Furan, Hydrazine, Methylsilane, Methyl Vinyl Ketone, Propenal, Propene, Tetrahydrofuran, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Vinyl Cyanide, Vinyl Ether

The Camera Includes

320x240 QWIP High Performance FPA, 50mm Lens with Lens Cover, Viewfinder, Auto Gain Control (AGC), HSM, Intelligent Battery Charger, Battery (3 each) LiOn , Video Cable, Hand Strap, Shipping/Carrying Case, Operating Manual, Personal Video Recorder (PVR) with battery and battery charger.