FTIMv High performance, low cost Thermal Imagers

The extremely compact design of the new FTI Mv series provide a uniquely practical and economic route to thermal surveillance and machine vision.
State of the art infrared detector and signal processing technologies have been brought together to provide a compact high performance thermal vision system at an attractive price.

FEATURES
• Miniature on-line thermal imagers
• Easy plant installation
• Range of close-up lenses
• Remote control and RS422A interface
• LIPS Mini provides extensive image processing including five colour palettes, zoom and noise filtering
• Alarm functions
• Information exchange with other applications using DDE and OLE, such as Microsoft Office or LabView

LIPS Mini software provides remote control, a powerful range of image processing routines and alarm outputs.
It can be linked with vision analysis software such as Labview with IMAQ to create a sophisticated process monitoring system.
Its compactness is ideal for medical and veterinary use in the consulting room or laboratory.

TYPICAL APPLICATIONS
• Thermal surveillance
• Machine vision
• Process monitoring
• Inspection of circuit assemblies
• Research
• Medical and veterinary
FTI Mv Specification

Scene temperature ranges: -20 to 100°C/14 to 212°F  
0 to 300°C/32 to 572°F  
0 to 500°C/32 to 932°F  
based on blackbody temperature (additional ranges available on request)

Detector array format: 160 x 120 pixels

Detector: Uncooled Microbolometer FPA

Spectral response: 7 to 14µm

Frame frequency: 30Hz

Temperature resolution: <0.12°C

Field of View: 17 x 12.8° (additional lens variants available on request)

Minimum Focus: 450mm/17.8in

IFOV: 1.85mrad (540:1)

Power Supply: 12V d.c., 3W

IP Rating: To IP50

Interfaces: Setup LCD port  
RS 422A serial communications - at distances up to 1km  
Video out - at distances up to 1km

LIPS Mini: Continuous or still image display and acquisition with radiance measurement at points, areas, profiles, histograms or isotherms for alarm output. Five palettes are available to aid scene interpretation.

Operating temperature range: 0 to 55°C/32 to 131°F

Overall weight: 1.3kg/2.9lb

Optional accessories
Power supply; LIPS Mini image processing software system; User Interface Box UIB; Close-up lenses.

Mechanical
Range of mounting accessories.

Electrical
Desk-top PC and monitor; 19in rack mounted computer and monitor; LCD screen; alarm card; analog output card; digital input card.