### FTI 6 SPECIFICATIONS

- **Temperature range:** -20 to 2000°C (44°F to 3622°F)
- **Focusing range:** 0.5m (19.7 in.)
- **Frame rate:** 20 Hz
- **Field of view:**
  - 16° (horizontal) x 16° (vertical)
  - 6.4° (horizontal) x 6.4° (vertical)
  - 40° (horizontal) x 40° (vertical)
- **Image pixels:**
  - 256 (horizontal) x 256 (vertical)
  - 1024 x 1024
- **Detector:** Thermoelectrically cooled HgCdTe, FPA
- **Spectral range:**
  - L range: 3.2 to 4.2 µm
  - M/H range: 3.9 µm
- **Image display:**
  - 256-step grey or colour scale, black/white reversible, image freeze, date, time
- **Video outputs:** PAL, NTSC or S-VHS composite video
- **Digital outputs:**
  - RS 232C, RS 422A or RS 485, Parallel (option)
- **Dimensions:** 153(W)x174(H)x153(D)mm/6(W)x6.8(H)x6(D)in
- **Weight:** 3.9kg/8.58lb

### Image Memories
- **Data memory:** Storage of 64 thermal and visual scenes on PCMCIA card
- **Erase:** Either single images or entire memory
- **Real-time memory:** 512 images at full frame rate

### Power Requirement
- **Power source:** 9 to 16V d.c., 2 amps

### Environmental Accessories
- **Environmental housing:** Adjustable mounting, mounting brackets, water cooled plate, air purge, pan & tilt assembly

### Accessories
- **Software:** LIPS F or LIPS T image processing software, remote control unit
- **Hardware:** 0.4x wide angle lens; 2.5x telephoto lens; close focus lens; microphone headset; monitor

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### TEMPERATURE MEASUREMENT
- **Measuring area:** 1.1 mrad x 1.1 mrad square minimum
- **Temperature range:**
  - L range: -20 to 200°C (44°F to 362°F)
  - M range: -20 to 650°C (392°F to 1202°F)
  - H range: -20 to 2000°C (392°F to 3622°F)
- **Display resolution:** 0.1 to 1°C (or F)
- **Compensation factors:** Emissivity, background temperature, isotherm, profile

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### Calibration Certification

The quality management system of Land Instruments International Ltd. is approved to BS EN ISO9001:2000 for the design and manufacture, stockholding, in-house repair and site servicing of non-contact temperature-measuring instrumentation. Associated software designed and developed in accordance with TickIT.

Calibration certificates are available from our UKAS accredited Calibration Laboratory No. 0034. The Land calibration laboratory complies with the requirements of the international standard BS EN ISO/IEC 17025.
The new FTI 6 thermal imager incorporates the latest focal plane array detector technology ingeniously engineered to produce accurate temperature measurement - ruggedly constructed to cope with demanding industrial environments. Using unique, state-of-the-art digital processing, FTI 6 provides accurate and highly stable industrial radiometric imaging and temperature measurement from -20 to 2000°C/-5 to 3600°F.

FTI 6 is the only imager specifically designed for permanent installation with an integral visual video camera which enables scenes to be viewed as thermal, visual or in combination.

Unlike other imagers using FPA technology, the FTI 6 uses thermoelectric cooling which is designed for long service-free life. FTI 6 is rugged and reliable which allows it to be used either as a permanently mounted continuous plant sensor or as a transportable process imaging system for investigative and test purposes. Audio commentary also can be added to provide a comprehensive record of the process under observation.

PERMANENT PLANT SENSOR
- Rugged construction, sealed to IP65
- Drift-free, real-time temperature analysis
- Alarm functions
- DDE and OLE links with external software applications
- Full control through LIPS F Software
- Easy plant installation
- Range of mounting options

REMOTE CONTROL
The FTI 6 can be remotely controlled via a digital communication link from a PC running the new LIPS F and LIPS T software systems. A separate remote control unit is also available.

LIPS F AND LIPS T THERMAL IMAGING SOFTWARE
The new LIPS thermal imaging software provides a powerful and flexible process measurement and control system for thermal analysis and full control of up to 16 FTI 6 imagers.

FEATURES OF LIPS:
- LIPS F - on-line thermal analysis system. Includes points, areas, isotherms, histograms, profiles, alarm generation and export.
- LIPS T - analysis and reporting system. Includes processing and analysis of stored images, and report writing facility.
- Control and analyze information from up to 16 imagers.
- Optional control module for up to four pan & tilt units.
- Automatic storage of images on receipt of alarm signals.
- Exchange of information with other Microsoft Windows® applications using DDE and OLE.
- Extensive image processing - full colour display with choice of five palettes, zoom, and noise filtering.
- Complete parameter control - temperature units, emissivity, background temperature and distance.
- Produce, edit and print colour thermal reports in minutes with the easy to use Report Writer facility.

TRANSPORTABLE TEST SYSTEM
- Powerful on-board temperature analysis
- Report generation using LIPS T software
- Control from remote keypad or PC
- Unlimited image storage on PCMCIA cards
- Light, compact and easily transportable

RANGE OF ACCESSORIES:
- Choice of lenses
- Environmental housing
- Range of mountings and cooling accessories
- Lens air purge
- RS232C, RS422A or RS485 digital interface with PC

The only purpose designed on-line imager with combined thermal and visual images

Unique state-of-the-art digital processing provides highly reliable drift-free measurement

Extensive range of mountings and cooling accessories includes pan & tilt, remote controller and cart

LIPS F and LIPS T thermal imaging software system

LIPS provides points, areas, isotherms, histograms, profiles and alarms