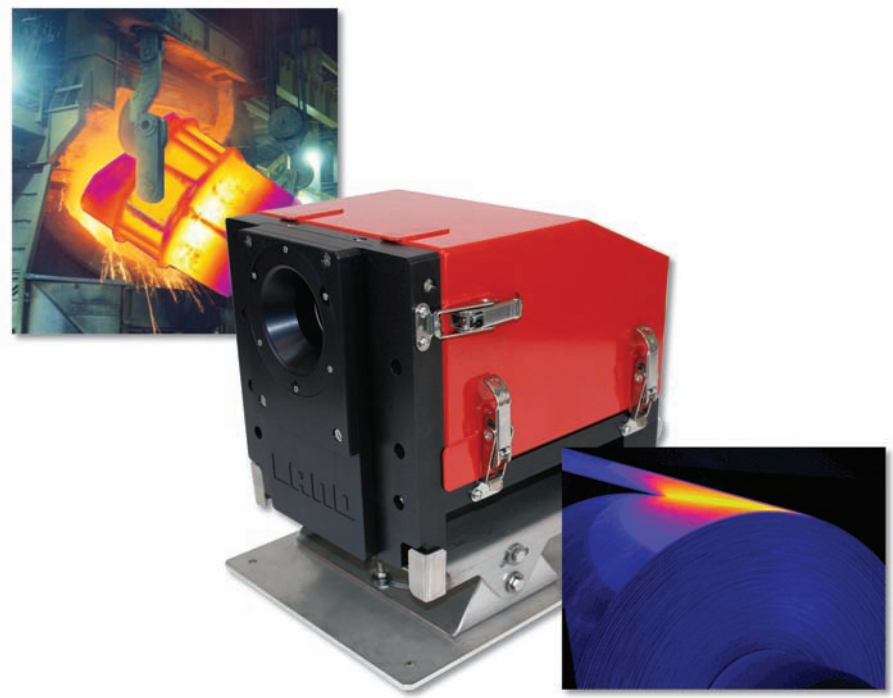
LAND

An AMETEK® Company



FTI-E

Fixed Thermal Imaging Systems

Process Imaging

Intelligent Design

System Overview

- **FTI-E Thermal Imagers** - high resolution, high accuracy, and high speed combined with digital data transmission. Designed to operate in the harshest of industrial environments.
- **FTI-E Control Processors** - Industrial processor providing local process control, configuration and process visualisation.
- **LIPS FTI Software** - On-line software system providing flexible, application-specific thermal analysis.

...all this backed up by a market-leading 36 month warranty

FTI-E Thermal Imagers

Features & Benefits

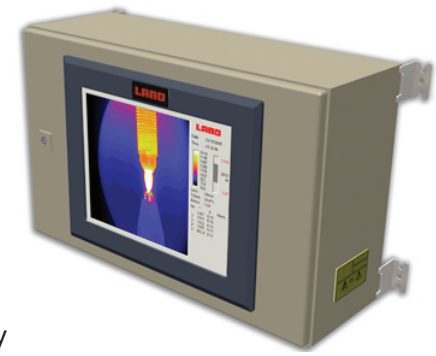
- High resolution radiometric thermal image, giving detailed temperature information transmitted via a high speed digital connection
- Accurate temperature measurement, enabling optimum process control from over 76,000 individual temperature measurements
- Simple installation and ease of use, reduces installation cost and complexity
- Designed for harsh industrial environments, ensuring ultimate measurement reliability and availability

Industrial Processors

An optional industrial processor is available that is designed to connect directly to the FTI-E imager.

Features & Benefits

- Sealed industrial enclosure - designed for installation on plant, or in a control room
- Flexible interface - provides connection to a wide range of standard industrial interfaces e.g. simple cross-platform TCP/IP protocol, OPC, analogue signals or alarm outputs
- Optional touchscreen - gives local display and control enabling maximum flexibility



Intelligent Imaging

Industrial Housing

The Industrial Housing is designed to protect the imager in even the harshest of operating environments and ensures reliable continuous operation.

Features & Benefits

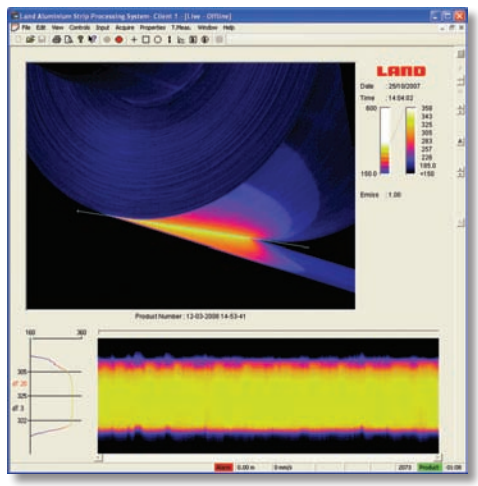
- High performance air purge design keeps lenses clean ensuring continual optimum performance in industrial environments
- Wide ambient temperature capability, ensuring that the imager can be used in even the harshest environments
- Simple installation & maintenance - Tool-free fitting and removal of imager
- Integrated manual pan & tilt mount for simple alignment of the system after installation

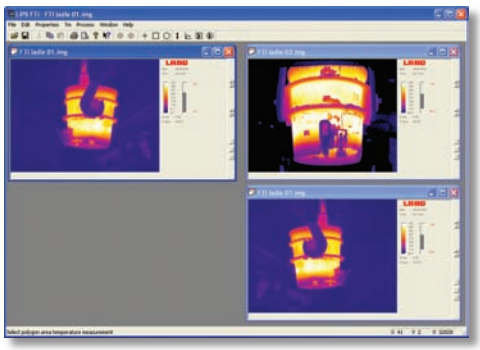
LIPS FTI Software

The LIPS FTI software uses the latest advances in image processing and digital communications to provide flexible image processing solutions for a wide range of industrial temperature measurement applications.

Features & Benefits

- Real time thermal analysis system
- Full range of analysis & process control functions e.g. point or area temperature measurement, temperature profiles, histograms, isotherms, measurement trending and digital zoom
- Automatic storage of images and video in the event of an alarm, combined with automated file management functions
- Exchange of information via a simple cross-platform TCP/IP protocol, optional OPC server, analogue signals or alarm output
- Monitor or control up to four imagers at full frame rate





Specifications

	FTI-E	
Temperature range:	-20 to 1600 °C / -4 to 2910 °F	
Frame rate:	30 frames per second	
Image pixels:	320 x 240	
Detector type:	Uncooled amorphous silicon focal plane array	
Field of view (4 x 3 format):	32 °	16 °
System temperature measurement accuracy:	±1% *	
System thermal resolution: (rms value)	< 0.3 °C < 0.54 °F	
Dimensions:	258 x 305 x 330 mm / 10 x 12 x 13 in (fitted inside industrial enclosure)	
Weight	4.5 Kg / 10 lb 20 kg / 44 lb fitted inside industrial enclosure	
Sealing:	IP65 / NEMA 4	
CE Certification:	EN 61326: 1999 B	

** System accuracy ±1.5 °C / 3°F below 150 °C / 300°F*

Intelligent Imaging

Our Intelligent Imaging solutions aim to solve problems by providing more than just pictures. Each LAND solution offers detailed and accurate temperature information to improve safety and product quality.

Contact LAND today to discuss your requirements for an Intelligent Imaging solution.

LAND

Non-Contact Temperature Measurement Solutions

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Applies to the UK

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REGISTERED ISO 9001 MANAGEMENT SYSTEM

LABORATORY ACCREDITATION BUREAU ACCREDITED ISO/IEC 17025:2005

Applies to the USA

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Continuous product development may make it necessary to change these details without notice.