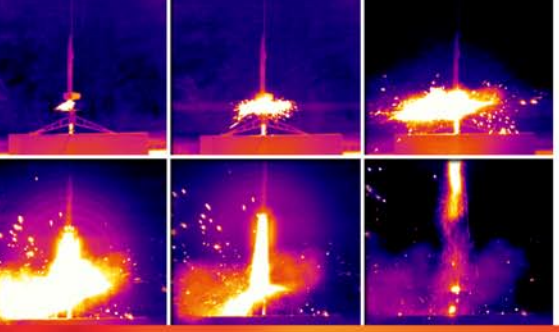


ThermaGRAM®

Real-Time Thermographic Display, Data Acquisition & Analysis System for Science, R & D and Technology

CERTIFIED USB 2.0

MIRICLE 307K Series

CERTIFIED USB 2.0

MIRICLE 110K Series

CERTIFIED USB 2.0

MIRICLE Industrial

Firewire

VisIR Ti 200/100

Firewire

MIRIC TB2-30

ThermaGRAM®

The Thermoteknix ThermaGRAM system provides real time infrared digital signal processing with a wide array of enhancement, analysis and image processing tools at full camera frame rates.

Flexible Software Options

ThermaGRAM supports direct input via USB-2 and IEEE 1394 Firewire interfaces from Thermoteknix VisIR, MIRIC and MIRICLE thermal cameras. Automatic detection and loading of camera calibration files gives seamless temperature readout and real-time analysis within the program in temperature, radiance and intensity units. Unlimited spot, area, profile and histogram tools. Individual emissivities on all tools, image and atmospheric transmission factors. Wide range of interactive image enhancements on live and frozen data. Image and Sequence save. Export data to Word, Excel or MatLab for further analyses. ThermaGRAM is fully OLE-2 compliant - image processing of live and recalled data directly within Microsoft Word, Excel - Analysis, reporting, scientific data processing.

ThermaGRAM PRO® provides additional functionality including: Time/temperature trending, Thermoteknix patented PosiTrak® image averaging, multi-image subtraction, mathematical manipulation, filtering and mosaic features as well as the IR Dynamite® Real Time Video Recorder.

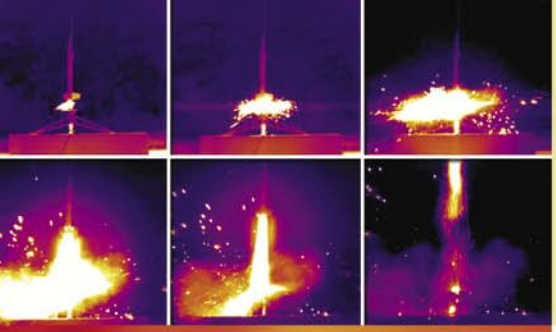
Dynamite® "Virtual VCR" provides real time event monitoring with continuous data storage directly to the PC hard disk and simultaneous display. Capture sequences can be triggered from threshold or external input before, during or post event. Stored sequences can be replayed alongside live imaging and output to AVI file.

ThermaGRAM REPORTER® adds wizard driven report generation in Microsoft Word™.

ThermaGRAM OPC™ (OLE for Process Control) provides real time images and all tools and processed data to 3rd party applications for process control, specialist research applications, or rapid product prototyping. Radiometric data from ThermaGRAM is available to industry standard OPC Client systems such as LabVIEW or MATLAB®. A C++ OPC Client Software developer's kit (SDK) is included for software engineers to develop their own application specific software.

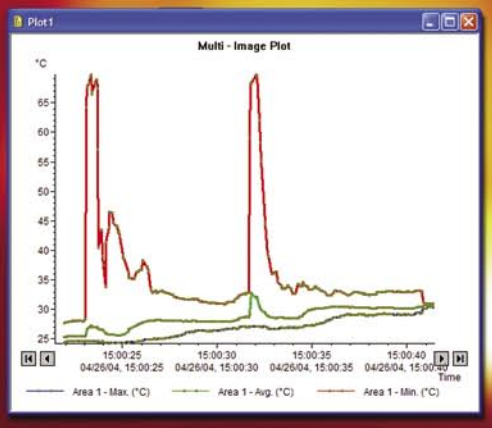
Thermoteknix Systems Ltd

More than just an image.....

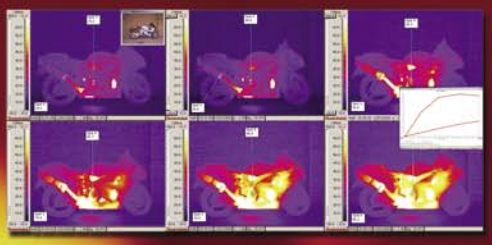


ThermaGRAM®

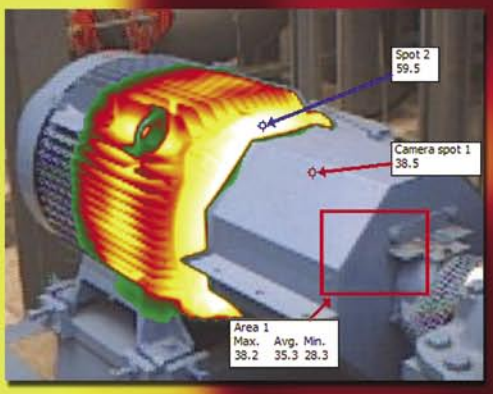
Real-Time Thermographic Display, Data Acquisition & Analysis System for Science, R & D and Technology



Temperature vs Time trend



Dynamite real time sequence



Infrared & Visual image blend

ThermaGRAM® is a unique IR system capable of capturing and recalling live real-time infrared imagery simultaneously from one or more infrared cameras.

System Specification

Frame Rate	30/50/60 fps depending on camera
User display	Multi-image windows allowing multiple live sources or replayed sequence files. Radiometry
	Full radiometric model implementation
NUC Control	Auto or manual
Auto Range	Whole image or region or tool
OLE support	Supports OLE links in real time data to other desktop products such as Excel
Analysis tools	Unlimited spots
All with individual emissivity, background and user-specifiable color	Unlimited areas and polygons
	On-screen profiles & histogram analysis
	Delta T
	Isotherms (single / palette)
Display	Multiple palettes (10 system + user defined)
	Window specific palette
	Labels
	Unlimited Undo / Redo
	Exchange image sequence
	Play sound
	Visual image display
	Blend IR & Visual image
Data recording	Single / Interval image save
Export capability	Static – JPEG or BMP
	Dynamic – AVI
Optional System Accessories	
ThermaGRAM PRO software	Real time image storage and replay
	PosiTRAK® image alignment
	Image averaging and subtraction
	Temperature vs Time plotting
	3x3, 5x5 & 7x7 filters (configurable)
	Tool based trigger capture
	Sequence capture from start, middle or end of data
ThermaGRAM Reporter Software	Wizard driven report generation
	Template based reports in MS Word
	In place editable
ThermaGRAM OPC	Automation & Process Control Interface
	OPC server functionality
	OPC test Client
	C++ SDK (Software Developer's Kit) for OPC client
	Optional configured and tested Laptop computer

Specification subject to change.
ThermaGRAM®, Dynamite®, MIRICLE® and VisIR® are registered trademarks of Thermoteknix Systems Ltd.

Thermoteknix Systems Ltd

UK Head Office: Teknix House, 2 Pembroke Avenue
Waterbeach, Cambridge, CB5 9QR, UK
Tel: +44 (0)1223 204000 Fax: +44 (0)1223 204010

USA Sales Office: 14457 NE 16th Place
Bellevue Washington 98007 USA
Tel: +1 425 746 6080 Fax: +1 425 746 4536

Web: www.thermoteknix.com email: sales@thermoteknix.com

05/06