

‘Seeing the Invisible’ Seminars Infrared Thermography for Predictive Maintenance Programmes

The first of the Thermoteknix Systems Infrared Thermography Seminars took place at the Duxford Officers’ Mess in Cambridge, March 14th. Chair for the day was Colin Pearson, Head of Condition Monitoring at BSRIA and UK Thermography Association (UKTA) Secretary. It is the UKTA’s aim to promote excellence in thermal imaging via the use of quality equipment, methods and training. Colin’s talk on the day concentrated on promoting quality in the construction industry using thermal imaging to detect poor or missing insulation, air leakage, heat loss from underground services and roof moisture. He was keen to point out that building fabric thermography is already an established application which provides a quick and simple method of checking construction quality. The UKTA is spearheading the drive towards introducing professional standards, certification and training for all UK thermographers in order to ensure quality practices within thermography. This will inevitably lead to an increase in the use of this exciting technology in the future.

Thermoteknix Sales Manager Alistair Brown broadened the discussion with an overview of the benefits of thermography in modern condition monitoring strategies including electrical, bearing, high voltage and petrochemical inspections. In short, infrared thermography is invaluable in any situation where a rise, or indeed, a reduction in temperature can be used as an indicator of potential problems within the plant. The technology was put into context with live demonstrations of Thermoteknix’s VisIR[®] Ti 200 and Ti 100 cameras, with unique features such as live simultaneous thermal and visual imaging, touch screen display and wireless data transmission from job site to desk top – packaged in a rugged aluminium shell for true on-site use.



The new VisIR[®] Ti 200 from Thermoteknix Systems Ltd

It was made clear though, that however advanced the data collection process might be, it is still essential to have powerful analysis and reporting tools to accurately and simply interpret information from the field. Thermoteknix Thermonitor® Reporter has been designed to seamlessly integrate thermal imaging software into a familiar Microsoft interface for simple analysis and wizard-driven reporting within Microsoft Word:

Transfer files to your PC

Choose your images using Drag & Drop

Use our Reporter Wizard to create custom Microsoft Word Documents

VisIR®
Thermoteknix Systems
INFRARED VISION
& Thermonitor® Reporter Software

Fault Description

Celsius	500.0	52.2
	50.0	
	45.0	
	40.0	
	35.0	
	30.0	
	25.0	
	-19.9	21.9

Ambient 27.0 Yellow 59.9

Diff. 1 33.0

Edit your images directly inside Microsoft Word

Emissivity	1	Difference	33.0°C
Spot 1	59.9°C	Spot 2	27.0°C

Recommendation

Output your reports in a professional, concise format

Thermonitor® Reporter Software

The cameras and software were made available throughout the meeting for hands-on demonstrations by all delegates who represented a wide range of organisations from the automotive, power generation and thermal imaging industries. The seminar was also attended by Iain Cruickshank, Managing Director of Cambridge-based Elecheck, a company specialising in professional electrical testing and mechanical services to commercial, industrial and educational institutions. He said “Elecheck recognised the significance of thermography for electrical testing and mechanical plant applications some time ago and it is

for that reason that we now have a dedicated thermal imaging team with infrared cameras for producing crisp, extremely accurate temperature measurements to generate sophisticated post-image reports for predictive maintenance solutions – that is, predicting system failures before they happen. We attended the seminar not only to see Thermoteknix’s exciting thermal imaging technology but also to keep up to date with the latest industry developments and the event proved most worthwhile for us.”

Thermoteknix will be running future ‘Seeing the Invisible’ seminars at different locations throughout the UK. For further information, please visit www.visir.net or call 01223 500777.

