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Just aim and shoot to get a false-colour picture showing the temperature gradients of a building, machinery, a human body or whatever. And it can function as a precise non-contact thermometer – by Leo Simpson

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Ever wondered what's inside a scope probe? There's more to them than just a resistive divider in combination with some capacitors. Here's a look at how they really work – by Doug Ford

42 How To Hand-Solder Very Small SMD ICs

Provided you have the correct tools, hand-soldering very small SMDs to PC boards is much easier than you think. Here's a run-down on how to do it – by Nicholas Vinen

Projects To Build

26 A Universal I/O Board With USB Interface

This easy-to-build board connects to a USB port on your laptop or desktop computer and will let you connect a host of digital and analog inputs/outputs. It works with Windows, Linux and Mac operating systems – by Dr Pj Radcliffe

34 High-Quality Stereo Digital-To-Analog Converter, Pt.2

Second article shows you how to assemble the PC board modules and make the connecting cables. Kits will be supplied with the SMDs soldered in place, to make the assembly easy – by Nicholas Vinen

62 Digital Megohm & Leakage Current Meter

Looking for an electronic megohm & leakage current tester with LCD readout? This unit allows testing at either 500V or 1000V and can measure insulation resistances up to 999M Ω and leakage currents to below 1 μ A – by Jim Rowe

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Pt.2 this month describes the construction and gives the installation and test details. There's also an FAQ panel to make the job easy – by John Clarke

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