Features

12 A Look At The MacBook 2010

PC users beware – this innovative new laptop computer from Apple is a winner. Try it and you could become hooked – by Kevin Poulter.

18 Digital TV: Where To From Here?

Digital TV transmissions now cover 60% of the Australian population but to get full HD programming, we need MPEG-4 broadcasts – by Alan Hughes

22 An Innovative Early-Warning System For Bushfires

A year on from the disastrous 2009 Victorian Bushfires, a possible life-saver goes begging – by David Ambry

85 Review: The UNIQUE UQ2062C Digital Storage Scope

We take a look at this highly-affordable 60MHz digital storage oscilloscope with a colour screen and two channels – by Nicholas Vinen

Projects To Build

28 A Solar-Powered Intruder Alarm For Sheds & Boats

Have you got a shed in the back yard or a boat on a mooring? Here is the ideal alarm for it. It's solar powered so no mains supply is needed – by John Clarke

58 Digital Audio Signal Generator, Pt.1

Versatile design generates high-quality sine, square, triangle and sawtooth waveforms and features both digital (TOSLINK & S/PDIF) and analog outputs. Its distortion with a high-quality DAC is extremely low – by Nicholas Vinen

70 A Low-Capacitance Adaptor for DMMs

Easy-to-build unit allows a standard digital multimeter to measure low-value capacitors from less than one picofarad to over 10nF. It also allows you to measure stray capacitance in switches, connectors and wiring – by Jim Rowe

78 A Very Accurate Thermometer/Thermostat

It measures from -55°C to +125°C and shows the current, minimum & maximum readings on an LCD. Use it for controlling air-conditioners, heaters, cool rooms, wine cellars, etc – by Michael Dedman

Special Columns

38 Circuit Notebook

(1) Simple Beam-Break Detector For Camera Shutter Or Flash Control; (2) Capacitance Meter Is Based On Reactance; (3) Discrete Low-Dropout Voltage Regulators; (4) Simple FM Receiver Has Pulse-Counting Detector

43 Serviceman's Log

It sometimes pays to keep your mouth shut - by the Serviceman

88 Vintage Radio

The 1933 Airzone 503 5-Valve Mantel Set – by Rodney Champness