

# FEATURES

## 8 Look Mum: No Wires

Want broadband Internet access without waiting for an ADSL or cable connection? "Unwired" does it without fuss – by Ross Tester

## 20 The New Era In Car Electrical Systems

The first cars using 42V batteries are now being released. Find out what's behind the move to higher voltages – by Julian Edgar

## 94 Emergency Power When All Else Fails

Is this one of Stan's wind-ups? You'd better believe it . . . just wind the handle for some emergency battery charging – by Stan Swan

# PROJECTS TO BUILD

## 28 USB-Controlled Power Switch

Build this and automatically power up all your PC's peripherals when you start the computer. It works via the PC's USB port – by Jim Rowe

## 34 A Charger For Deep-Cycle 12V Batteries, Pt.1

That's not a charger . . . this is a charger! If you want to charge deep-cycle 12V batteries correctly, this 16.6A unit is the way to go – by John Clarke

## 66 The Driveway Sentry

Detect vehicles coming down your driveway and automatically open gates or sound an alarm with this reliable unit. It works just like the detectors used for traffic-lights – by Jim Rowe

## 74 SMS Controller, Pt.2

Second article tells you how to complete the circuit checks and describes how the unit is used – by Peter Smith

## 90 Picaxe Infrared Remote Control

Here's how to add infrared remote control to all your PICAXE-08M projects (including Rudolph) – by Clive Seager

# SPECIAL COLUMNS

## 80 Circuit Notebook

(1) Low-Coolant Alarm For Falcon EF & EL Models; (2) One-Second Darkroom Ticker; (3) Simpler PC Power-Up; (4) Micro Timer With LED Readout; (5) Water Pump Monitor; (6) Reducing The Effective Mains Voltage

## 44 Serviceman's Log

It's time I bought a new TV set – by the TV Serviceman

## 96 Vintage Radio

Those troublesome capacitors, Pt.2 – by Rodney Champness

# DEPARTMENTS

2 Publisher's Letter

4 Mailbag

65 Order Form

87 Product Showcase

89 Silicon Chip Weblink

106 Ask Silicon Chip

109 Notes & Errata

110 Market Centre

112 Ad Index