

8 The Electronic Camera, Pt.1

They're more expensive than film cameras and require skill to produce quality prints. So why are they leaping off retailers' shelves? – by Kevin Poulter

16 The World's Most Highly Modified Hybrid Car

Only a fruit-loop would modify a car with no less than six electronic control units, a 288V battery and two electric motor/generators – by Julian Edgar

44 Six Low-Cost Expansion Boards For The AVR200

Add up to 128 bits of digital I/O, a keypad and LCD, more non-volatile memory – or a combination of any of these – by Peter Smith

80 Salvage Engineering

Spend a few dollars on a solar-powered garden light and what do you get? Parts that are worth salvaging for other projects, that's what! – by Stan Swan

PROJECTS TO BUILD

30 PC-Controlled Burglar Alarm System, Pt.2

Testing and driving the new alarm system. We also show you how to build the optional keypad module – by Trent Jackson

38 Low-Cost Intercooler Water Spray Controller

A cheap but sophisticated way of controlling a turbo car's intercooler water spray. It's also really easy to build – by Julian Edgar

64 AVR ISP SocketBoard

Team it with an AVR in-system programmer (ISP) and you can program just about all DIL Atmel microcontrollers on the spot – by Peter Smith

70 A Line Tracker For Your Microbric Viper

Keep it on the straight and narrow or follow the curves - by Ross Tester

84 Phone/Fax Missed Call Alert

It detects an incoming call and lights a LED or sounds a horn in another room or your garage – by Jim Rowe

special columns

48 Serviceman's Log

The beautiful-looking Philips TV set - by the TV Serviceman

72 Circuit Notebook

(1) Steam & Diesel Loco Sounds; (2) Long Life Lamp Beacon; (3) Accurate Milliohm Meter; (4) Sensitive Over-Current Protector; Delay Circuit For Power Windows; (5) Versatile Electronic Load

90 Salvage It!

A low-cost large display anemometer - by Julian Edgar

98 Vintage Radio

The unique Healing "Scales" 403E receiver - by Rodney Champness