

# FEATURES

## 8 Border Surveillance In The 21st Century

*New technology is on the hunt for contraband, arms and illegal immigrants – by Barrie Smith*

## 79 School Electronics: Putting The Picaxe To Work

*All the fun at the Picaxe fair and first prize to East Hills Girls Technology High School for an ingenious Picaxe-based pedestrian crossing – by Ross Tester*

## 88 Satellite C-Band TV: Death By Overload, Pt.2

*Some practical ideas to minimise (or even eliminate) interference to C-band satellite signals from wireless broadband signals – by Garry Cratt*

## 100 Build Yourself A Windmill Generator, Pt.3

*Third article shows you how to build the platform and install the stator, drive shaft and front bearing fitting – by Glenn Littleford*

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## 14 Build A USB-Controlled Electrocardiograph

*It's controlled by a USB port on your PC or laptop and displays a person's electrocardiogram (ECG) on the monitor or LCD screen – by Jim Rowe*

## 32 TwinTen Stereo Amplifier

*Build this gutsy little amplifier for your Discman, MP3 player or games machine – by Jim Rowe & Peter Smith*

## 64 Inductance & Q-Factor Meter

*Compact unit measures inductors from 200nH - 10mH, checks Q-factor from 1-120 and displays the results on an LCD – by Leonid Lerner*

## 72 A Real Yagi Antenna For UHF CB

*Are you good at scrounging? All it takes is some plastic conduit and a couple of wire coat hangers to build this really effective antenna – by Stan Swan*

# SPECIAL COLUMNS

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## 90 Salvage It!

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## 92 Vintage Radio

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