

FEATURES

7 Freeze Motion In The Movies

Ever wondered how they get those freeze-motion effects in movies like "The Matrix"? Believe it or not, it's not done with computer image manipulation— by Barrie Smith

44 The World's Smallest Flying Microbot

It weights just 8.9 grams and flies using a pair of contra-rotating propellers driven by an ultra-thin ultrasonic motor

PROJECTS TO BUILD

12 Studio 350 Power Amplifier Module

Want an audio power amplifier with real grunt? This rugged module is capable of delivering 200W RMS into an 8-ohm load and 350W into a 4-ohm load, at very low distortion – by Leo Simpson & Peter Smith

24 High-Efficiency Power Supply For 1W Star LEDs

Easy-to-build design lets you use a pair of 1.5V "D" cells and includes a brightness control to further extend the battery life – by Peter Smith

33 Antenna & RF Preamp For Weather Satellites

All the details for a simple turnstile/reflector antenna plus an RF preamp that mounts up on the mast to really drag in those satellite images – by Jim Rowe

54 Lapel Microphone Adaptor For PA Systems

Simple adaptor features a balanced output and lets you use electret lapel and headset microphones with PA systems – by John Clarke

72 PICAXE-18X 4-Channel Datalogger

It features four input channels that can be sampled and stored (or logged) at user-defined intervals. An onboard EEPROM stores the data – by Clive Seager

80 2.4GHz Audio/Video Link

It's based on pre-built modules, operates at maximum legal power and uses a WiFi antenna for excellent range – by Ross Tester

SPECIAL COLUMNS

40 Serviceman's Log

Born in the UK, dead in OZ! – by the TV Serviceman

62 Circuit Notebook

(1) Low-Cost Burglar Alarm For Boats; (2) Remote Alarm For Smoke Detector Circuit; (3) Yes/No Indicator Has Zero Standby Current; (4) Battery Charge Regulator; (5) Video Tracer For Trouble-shooting

84 Vintage Radio

The Armstrong C5 Dual-Wave Receiver – by Rodney Champness