

## **FEATURES**

### **16 Canon's 10D & Fuji's S2 Pro 35mm Digital Cameras**

*Both have 6-megapixel sensors but Fuji claim a 12-megapixel image. How do they do it? – by Ross Tester*

### **21 Review: The Cent-A-Meter Electricity Monitor**

*Are your household electricity bills higher than you'd like? With this device, you can continuously track electricity consumption and find out where your money is going – by Leo Simpson*

### **34 PC Board Design Tutorial, Pt.1**

*Take the mystery out of PC board design with this new series. It covers the design of single layer, double-sided and multi-layer boards and offers lots of useful advice – by David L. Jones*

## **PROJECTS TO BUILD**

### **8 The JV80 Loudspeaker System**

*New design uses quality Vifa drivers and comes with a pre-built cabinet. All you need is an hour or so and a screwdriver. – by Leo Simpson*

### **25 A Dirt-Cheap, High-Current Power Supply**

*Here's yet another use for that pensioned-off AT computer that's gathering dust in the corner. We show you how to convert the supply to deliver 13.5V at 20A – by Col Hodgson*

### **56 A Low-Cost 50MHz Frequency Meter**

*It features an LCD readout, auto-ranging and two resolution modes. And it can be run from a plugpack or battery operated – by John Clarke*

### **70 Long-Range 16-Channel Remote Control System**

*It's based on pre-built UHF modules, has a range of up to 1.5km and can be programmed just the way you want – by Jeff Monegal*

## **SPECIAL COLUMNS**

### **40 Serviceman's Log**

*TV servicing is getting complicated – by the TV Serviceman*

### **79 Vintage Radio**

*Vibrators: the death knell of expensive dry batteries; Pt.2 – by Rodney Champness*

### **84 Circuit Notebook**

*(1) Interactive Toy Traffic Lights; (2) Multipurpose Flipflop Timer; (3) Automatic White-LED Garden Light; (4) Picaxe-Based Bicycle Odometer*