



# 1985 CATALOG

The Newest and Best Values in Do-it-Yourself Kits and Factory Assembled Electronic Equipment  Test Equipment  Burglar/Fire Alarms  Truohm Multimeters  Accessory Probes  Eicocraft Kits  Hobbyist & Automotive Electronics



# TRUVOHM<sup>®</sup> MULTIMETERS

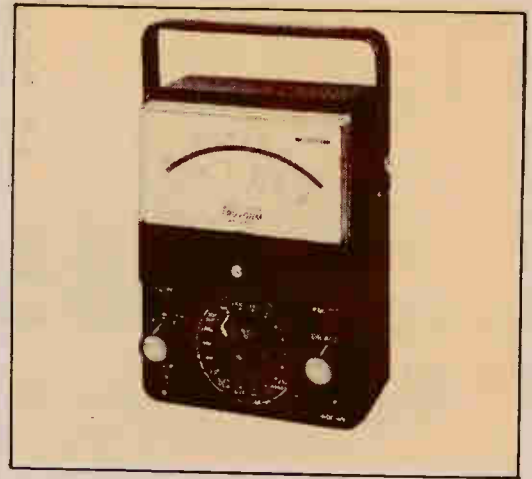
## 100-A-4 100k ohms/vdc

- 28 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- 10-AMP DC AND AC CURRENT RANGE
- COMPLETE WITH TEST LEADS AND BATTERIES
- OPTIONAL CARRYING CASE SCL-1

All the features you expect in a lab quality instrument. Combines extremely minimal circuit loading with functional utility. 10 Amp DC and AC current range adds to the units versatility. Easy-to-read 4½" meter has an anti-parallel mirror back 3-color coded scale. ±1% temperature-stabilized resistors and double jewelled ±2% D'Arsonval meter movement protected against overload by dual silicon diodes.

### SPECIFICATIONS

DC VOLTAGE: 0.5, 2.5, 10, 50, 250, 500, 1000V AC VOLTAGE: 2.5, 10, 50, 250, 1000V DC CURRENT: 10A, 250mA, 2.5mA, 25mA, 250mA, 10A AC CURRENT: 10A RESISTANCE: 20KΩ, 200KΩ, 2MΩ, 20MΩ DECIBELS: -20 to ±62dB in 5 ranges ACCURACY: DC ±4%, AC ±3% Resistance ±3% (OF FULL SCALE) SENSITIVITY: 100,000 Ω/V DC, 12,500 Ω/V AC BATTERIES: TWO 21.5V (UM-2/°C) SIZE (HWD): 7½ x 5¼ x 3¼ WT: 8 oz.



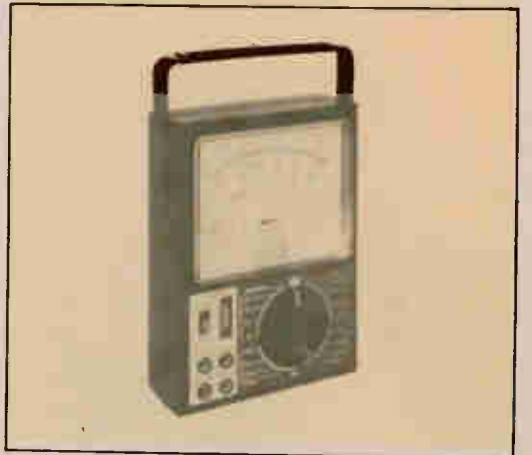
## 50-A-3 50k ohms/vdc

- 43 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- RANGE DOUBLER SWITCH
- COMPLETE WITH TEST LEADS AND BATTERIES

The best buy in a bench-size multimeter. Range doubler switch (V-A/2-V-Ω-A) effectively doubles the number of AC and DC scales available. The low DC ranges are ideal for testing solid state circuits. Read resistance accurately to 20 megohms. 10 amp DC current range. Easy-to-read 4½" meter has an anti-parallel mirror back 3-color coded scale. ±1% temperature-stabilized resistors and double jewelled ±2% D'Arsonval meter movement protected against overload by dual silicon diodes. OFF range shunts meter during transportation.

### SPECIFICATIONS

DC VOLTAGE: 0.25, 2.5, 10, 50, 250, 1000V AC VOLTAGE: 10, 50, 250, 1000V DC CURRENT: 50mA, 5mA, 50mA, 500mA, 10mA RESISTANCE: 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ DECIBELS: -20 to ±62dB 8 ranges ACCURACY: DC ±4%, AC ±4% Resistance ±3% (OF FULL SCALE) SENSITIVITY: 50,000 Ω/V DC, 10,000 Ω/V AC BATTERIES: One 1.5V, One 9V (0068) SIZE (HWD): 6½ x 4¾ x 2 WT: 8 oz.



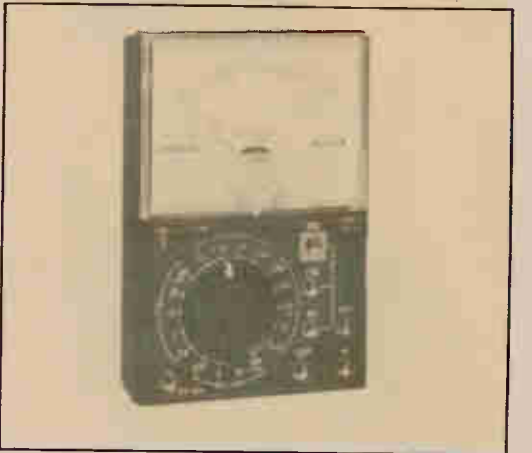
## 30-A-4 30k ohms/vdc

- 30 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- DC 12A RANGE AND POLARITY SWITCH
- COMPLETE WITH TEST LEADS AND BATTERIES
- OPTIONAL CARRYING CASE SCL-3

Laboratory-type, wide-range multimeter features a safety fuse protected ohm circuit. 12 amp DC Current range and capacitance measurement scale. Resistance to 50 megohms. 3000 DC Volts range. Easy-to-read 3½" meter has a 3-color coded mirror-back scale. ±1% temperature-stabilized resistors and double jewelled ±2% D'Arsonval meter movement protected against overload by dual silicon diodes.

### SPECIFICATIONS

DC VOLTAGE: 0.6, 3, 12, 60, 300, 600, 1,200, 3,000V AC VOLTAGE: 6, 30, 120, 300, 1200V DC CURRENT: 30A, 6mA, 60mA, 600mA, 12A RESISTANCE: 5KΩ, 500KΩ, 5MΩ, 50MΩ CAPACITANCE: 50pF - 0.01μF (AC120V), 200pF - 0.04μF (AC 30V), 1,000pF - 0.2μF - (AC 6V) DECIBELS: -20 to 63dB in 5 ranges SENSITIVITY: 30,000 μV DC, 10,000 μV AC BATTERIES: ONE 1.5V (UM-3/°AA'), One 15V (NEDA 220) SIZE (HWD): 5½ x 3¾ x 1¼ WT: 6 oz.



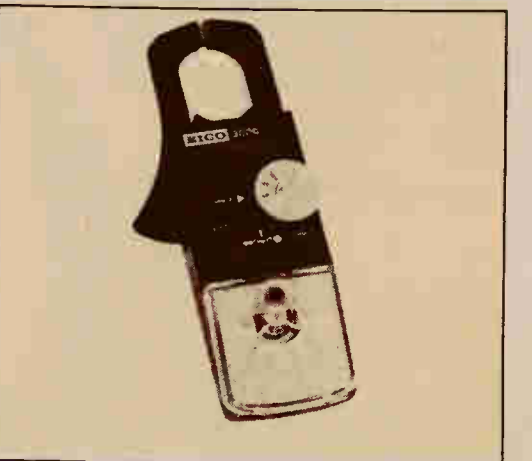
## 300-C "clamp-on" current tester

- PORTABLE AC VOLTMETER/AC AMMETER/OHMMETER
- "CLAMP-ON" INSULATED JAWS
- CURRENT MEASUREMENTS WITHOUT BREAKING CIRCUIT
- SAFETY FUSE PROTECTED OHM CIRCUIT
- COMPLETE WITH TEST LEADS, OHM PROBE, BATTERY AND CARRYING CASE

This compact, light weight unit measures AC current without breaking the circuit. Insulated jaws snap around a single conductor and the meter gives instant reading. Test leads plug in for voltage and resistance checks. Measure AC voltage to 600V, AC current to 300A and resistance to 5000Ω with ohms Test Probe (safety fuse protected). 3-color-coded meter scale.

### SPECIFICATIONS

AC VOLTAGE: 150, 300, 600V AC CURRENT: 15, 60, 300A RESISTANCE: 5KΩ (MIDSCALE 200Ω) BATTERY: One 1.5V (UM-3/°AA') SIZE (HWD): 7" x 2" x 1½" WT: 8 oz.





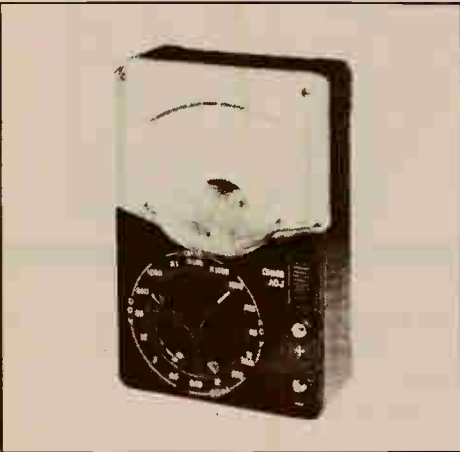
### 30-A-3 30k ohms/vdc

- 17 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- COMPLETE WITH TEST LEADS AND BATTERIES
- OPTIONAL CARRYING CASE SCL-2

Has all the professional features of a fine high-priced multimeter. For minimal circuit loading, has 30,000Ω/Volt DC and 14,000Ω/Volt AC characteristics. Easy-to-read 3" meter has an anti-parallel mirror back color coded scale ± 1% temperature stabilized resistors and double jewelled ± 2% D'Arsonval meter movement protected against overload by dual silicon diodes.

#### SPECIFICATIONS

DC VOLTAGE: 0.6, 3, 12, 60, 300, 1200V AC VOLTAGE: 12, 60, 300, 1200V DC CURRENT: 60μA, 12mA, 300mA RESISTANCE: 10kΩ, 1MΩ, 10MΩ DECIBELS: -10 to ± 23dB ACCURACY: DC ± 3%, AC ± 4%, Resistance ± 3% (OF FULL SCALE) SENSITIVITY: 30,000 Ω/V DC, 14,000 Ω/V AC BATTERIES: TWO 1.5V (UM-3/AA") SIZE (HWD): 5 x 3 1/4 x 1 1/2 WT: 6 oz



### 20-A-4 20k ohms/vdc

- 23 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- LEVER TYPE RANGE SELECTOR SWITCH
- COMPLETE WITH TEST LEADS / BATTERIES
- INCLUDES DELUXE FITTED CARRYING CASE

Versatile instrument with lever type range selector switch. Read voltage, current and resistance accurately on each of the 23 ranges, safety fuse protected ohm circuit. Resistance can be measured accurately to 50 megohms. Easy-to-read 3" meter has an anti-parallel mirror-back color coded scale, ± 1% temperature stabilized resistors and double jewelled ± 2% D'Arsonval meter movement protected against overload by dual silicon diodes. OFF range shunts meter during transportation.

#### SPECIFICATIONS

DC VOLTAGE: 5, 25, 100, 500, 1000V AC VOLTAGE: 5, 25, 100, 500, 1000V DC CURRENT: 50μA, 5mA, 50mA, 500mA RESISTANCE: 6kΩ, 600kΩ, 6MΩ, 50MΩ DECIBELS: -20dB to ± 62 in 5 ranges ACCURACY: DC ± 3%, AC ± 4% Resistance ± 4% (OF FULL SCALE) SENSITIVITY: 20,000 Ω/V DC, 10,000 Ω/V AC BATTERIES: ONE 1.5V (UM-3/AA"), One 15V (W-10) SIZE: 4 3/4 x 3 x 1/4 WT: 6 oz



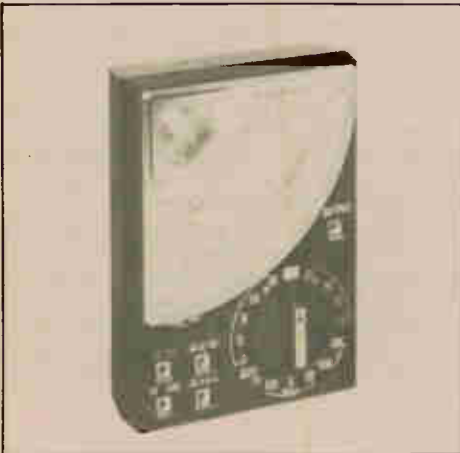
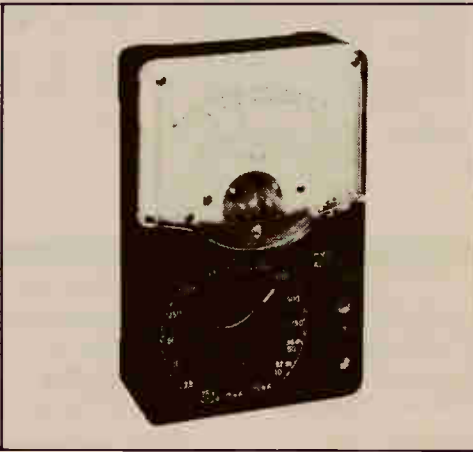
### 20-A-3 20k ohms/vdc

- 19 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- 250 m/V AND 50μA RANGES
- COMPLETE WITH TEST LEADS AND BATTERIES
- OPTIONAL CARRYING CASE SCL-2

A fine utility multimeter with 20,000 Ω/V AC characteristic. Measures DC and AC volts, DC current, resistance and dB with accuracy usually found only in larger instruments. Easy-to-read 3" meter has an anti-parallel mirror-back color coded scale, ± 1% temperature stabilized resistors and double jewelled ± 2% D'Arsonval meter movement protected against overload by dual silicon diodes.

#### SPECIFICATIONS

DC VOLTAGE: 0.25, 2.5, 10, 50, 250, 1000V AC VOLTAGE: 10, 50, 250, 500, 1000V DC CURRENT: 50μA, 25mA, 250mA RESISTANCE: 7kΩ, 700kΩ, 7MΩ DECIBELS: 10dB to ± 36dB in 2 ranges ACCURACY: DC ± 3%, AC ± 4%, resistance ± 4% (OF FULL SCALE) SENSITIVITY: 20,000 Ω/V DC, 10,000 Ω/V AC BATTERIES: TWO 1.5V (UM-2/AA") SIZE (HWD): 5 x 3 1/4 x 7 1/4 WT: 6 oz



### 20-A-2 20k ohms/vdc

- 21 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- SAFETY FUSE PROTECTED CIRCUIT
- COMPLETE WITH TEST LEADS / BATTERY
- OPTIONAL CARRYING CASE SCL-2

A tremendously precise 20,000Ω/V DC VOM at a amazingly low price. Features a safety fuse protected circuit and "Good-Bad" battery check scale. Easy-to-read 3" meter has an anti-parallel mirror-back color coded scale, ± 1% temperature-stabilized resistors and double jewelled ± 2% D'Arsonval meter movement protected against overload by dual silicon diodes. OFF range shunts meter during transportation.

#### SPECIFICATIONS

DC VOLTAGES: 5, 25, 50, 250, 500, 1000V, Bat. Ck 0-1.5V AC VOLTAGE: 10, 50, 100, 500, 1000V DC CURRENT: 50μA, 25mA, 250mA RESISTANCE: 60kΩ, 6MΩ DECIBELS: -20dB to ± 22dB in 4 ranges ACCURACY: DC ± 3%, AC ± 4% Resistance ± 4% (OF FULL SCALE) SENSITIVITY: 20,000Ω/V DC, 10,000Ω/V AC BATTERY: 1.5V (UM-2/AA") SIZE (HWD): 4 1/2 x 3 1/4 x 1 1/4 WT: 5 oz



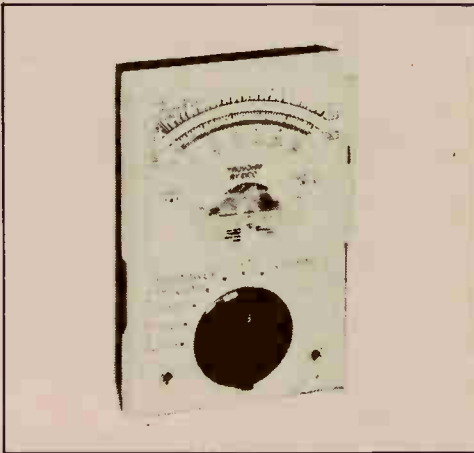
### 4-A-4 4k ohms/vdc & ac

- 18 RANGES
- METER OVERLOAD PROTECTED
- MIRROR-BACK SCALE
- 250mV LOW DC RANGE
- COMPLETE WITH TEST LEADS AND BATTERIES
- OPTIONAL CARRYING CASE SCL-2

A compact-sized multimeter that gives all the features and accuracy of a full-size unit. 250mV DC ranges ideal for checking solid state circuits. Easy-to-read 3" meter has an anti-parallel mirror-back 3-color coded-scale, ± 1% temperature-stabilized resistors and double jewelled ± 2% D'Arsonval meter movement protected against overload by dual silicon diodes.

#### SPECIFICATIONS

DC VOLTAGE: 0.25, 2.5, 20, 50, 250, 500, 1000V AC VOLTAGE: 10, 50, 250, 1000V DC CURRENT: 0.25, 25, 250mA RESISTANCE: 2kΩ, 200kΩ, 2MΩ DECIBELS: -10dB to 22dB ACCURACY: DC ± 3%, AC ± 4% resistance ± 3% (OF FULL SCALE) SENSITIVITY: 4000Ω/V DC AND AC BATTERIES: Two 1.5V (UM-3/AA") SIZE (HWD): 5 1/4 x 3 1/2 x 1 1/2 WT: 6 oz



### 1-A-1 2k ohms/vdc

- 12 RANGES
- MIRROR-BACK SCALE
- METER OVERLOAD PROTECTED
- 100mA DC RANGE
- COMPLETE WITH TEST LEADS AND BATTERY

The go-everywhere shirt-pocket instrument for the busy technician/hobbyist. Features 2000Ω/V DC and AC sensitivity and convenient 100mA DC range. Easy-to-read meter has an anti-parallel mirror-back color-coded scale and precision meter movement protected against overload.

#### SPECIFICATIONS

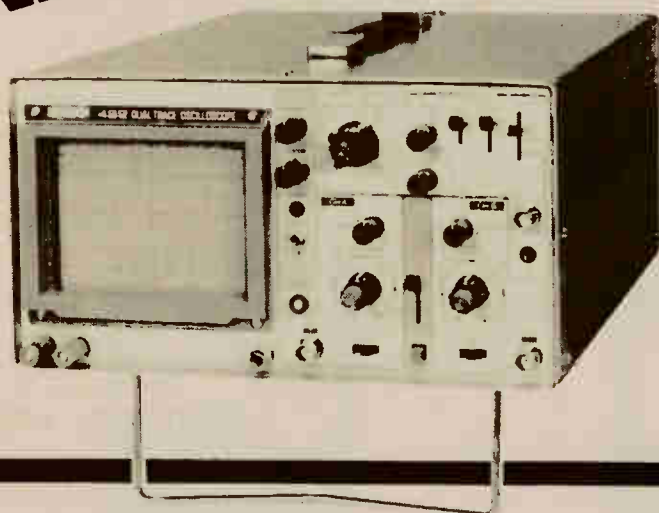
DC VOLTAGE: 10, 50, 250, 1000V AC VOLTAGE: 10, 50, 250, 1000V DC CURRENT: 100mA RESISTANCE: 10kΩ, 1MΩ DECIBELS: -10 to ± 22dB ACCURACY: DC ± 3%, AC ± 4%, Resistance ± 3% (of Full Scale) SENSITIVITY: 2000 Ω/V DC AND AC BATTERY: 1.5V (UM-3/AA") SIZE (HWD): 3 1/4 x 2 1/4 x 1 1/4 WT: 3 oz

Ideal for logic and digital design and troubleshooting

# 482 dual trace 20 MHz 5" oscilloscope

**NEW!**

**Exclusive Built-In  
Component Tester!**



- 5 mV/cm Sensitivity • 100% Solid State
- Automatic Triggering • Includes 10:1 Probes
- Automatic Selection of Alternate or Chop Mode
- Add and Subtract Mode • 17.5 Nanosec Rise Time

Versatile and easy to use, the EICO 482 has features not usually found in oscilloscopes in this price range. The Model 482 offers DC to 20MHz bandwidth, AC DC coupling, 11 position calibrated attenuator, 5 mV/cm sensitivity, and automatic shift between chop and alternate as sweep time is changed. Gives you 19 calibrated sweeps from 0.5 microsecond per centimeter to 500 microseconds per centimeter. 17.5 nanosec rise time for easy viewing of high speed pulses and wave forms. Automatic trigger from either channel, including TV sync, extends convenience and versatility. Add & subtract modes, (with Ch-2 invert), permits quick analysis of signals, amplitude, etc. Front panel X-Y operation makes it ideal for phaseshift, analysis, sweep alignment and vectorscope service. A built in component Quick-Tester enables you to check diodes, transistors, resistors and capacitors. The wave form tells its condition at a glance! The five inch Cathode Ray Tube has a bright green display and a molded bezel for use with cameras. A full-regulated power supply provides stable voltages regardless of line and load fluctuations, and a calibration voltage of 0.5 volts peak-to-peak square wave is available for probe adjustment. Included with the Model 482 are two low-capacity high-impedance probes (the EICO Model PLD) that minimizes circuit load during test. The PLD probe has a 3-position switch which selects 10:1 or direct modes, or a reference position that grounds the tip through the 9 megohm resistor. This "top-of-the-line" scope is a professional instrument designed by professionals for professionals.

#### SPECIFICATIONS

**VERTICAL DEFLECTION:** Deflection Factor; 5mV to 10V/DIV on 11 ranges in 1-2.5 step with fine control, Bandwidth; DC: DC to 20MHz (-3dB), AC: 10Hz to 20MHz (-3dB), Risetime; 17.5nsec, Overshoot; Less than 3%, Input Impedance; 1 megohm shunted by 20pF +/- 3pF, Operating Modes; CH-A, CH-B, DUAL, ADD, Chop Frequency; 200kHz approx., Channel Separation; Better than 60dB at 1kHz, CH-B Polarity; CH-B can be inverted. **TIME BASE:** Type; Automatic and triggered. In automatic mode, sweep is obtained without input signal, Sweep Time; 0.5usec to 0.5sec/DIV on 19 ranges and X-Y In 1-2.5 step with fine control, Magnifier; x5 at all ranges, Linearity; Less than 3%. **HORIZONTAL DEFLECTION:** Deflection Factor; 5mV to 10V/DIV on 11 ranges in 1-2.5 step with fine control, Frequency Response; DC to 1MHz, Input Impedance; 1 megohm shunted by 20pF +/- 3pF, Max Input Voltage; 300V DC + AC peak or 600 Vp-p, X-Y Operation; X-Y mode is selected by SWEEP TIME/DIV switch. CH-A: Y axis. CH-B: X axis. **TRIGGERING:** Sensitivity; INT: 1 DIV or more, EXT: 1 Vp-p, Source; INT, CH-A, CH-B, LINE, EXT, Slope; Positive and Negative, continuously variable level control: Pull for AUTO, Range; 20Hz to 20MHz, Filters; AC, HF-REJ, TV, TV Sync; Vertical and Horizontal Sync separator circuitry allows any portion of complex TV video waveform to be synchronized and expanded for viewing. TV-H(Line) and TV-V(Frame) sync are switched automatically by SWEEP TIME/DIV switch. TV-V: 0.5sec/DIV to 0.1msec/DIV, TV-H: 50usec/DIV to 0.5usec/DIV. CRT; 130mm tube (approx. 2KV), Intensity Modulation; TTL Level, Max Input: +50V (DC + AC peak), Calibration Voltage; 0.5Vp-p +/- 5%, 1kHz Square Wave, Power Requirements; AC: 117V, 50/60Hz, Weight; 8kg approx.

**Assembled**

All new! All solid state state-of-the-art circuitry!

# 460-S wideband dc 5" oscilloscope

**NEW!**



- 1 DC - 4.5 MHz Flat Response
- Automatic Sync • TV-V and TV-H Sweeps
- 20 MV/cm Sensitivity • 100% Solid State
- Five-Inch Bright Display CRT

The NEW 460-S is an outstanding value. Styling is all NEW and MODERN, with high brightness CRT and filter, wave-forms are clear and easy to observe. Its sturdy compact construction, and portability make it ideal for use anywhere even field service. The 460's advanced design features make it ideal for use in the TV service field, production testing, labs and schools. Bandwidth extends to 4.5MHz with a sensitivity of 20 mV/p-p/cm or better. It is completely solid state and features FET's in input circuits, DC coupled amplifiers, phase (up to 140) line frequency sweep and vertical calibration voltage. Either DC or peak-to-peak AC (or combination) measurements may be made from 30 mV to 500V. Instantaneous, driftfree positioning permits centering any part of any expanded trace. Intensity and focus controls, 60 Hz output jack and phasing control, sawtooth (sweep) output jack, intensity modulation (Z axis) input jack, and external capacitor jack for very-low frequency sweeps are all on the front panel. DC balance and astigmatism adjustments are accessible without cabinet removal.

#### SPECIFICATIONS

**VERTICAL AMPLIFIER:** Sensitivity; 20mV p-p/cm or better. Bandwidth (-3dB); DC: DC to 4.5MHz, AC: 2Hz to 4.5Hz. Input impedance; 1 Megohm: Less than 45pf in shunt. Input Control; x1, x10, x100, and fine adjuster. Calibration voltage: 0.1V p-p at line frequency. Input voltage (maximum); 600V (p-p + DC) **HORIZONTAL AMPLIFIER:** Sensitivity; 300mVp-p/cm or better. Bandwidth (-3dB); DC to 600 KHz input impedance; 1 Megohm: less than 40pf in shunt. Input Voltage (max); 100V (p-p + DC). **SWEEP RANGES:** 10 to 100,000Hz sawtooth in 4 ranges plus EXT CAP position for very low frequency sweeps with external capacitor. Special TV-V and TV-H positions provide 30Hz and 7875Hz sweeps respectively for convenience in TV servicing. Synchronization; "+" internal, "-" internal, 60Hz (phase controlled), or external. **POWER:** 117vac, 50/60Hz (export model 220V) approx. 15 VA. **SIZE:** (HWD) 280 x 176 x 440mm. **WEIGHT:** 7.9kg.

**Assembled**



Extraordinary Performance and Value!

# 274 3 1/2 digit LCD digital multimeter

## NEW!



**INCLUDES CARRYING CASE**

- AUTO POLARITY, AUTO ZERO • 26 RANGES
- ACCURACY BETTER THAN 1.0% DCV
- FULLY OVERLOAD PROTECTED
- 10 MEGOHM INPUT IMPEDANCE
- OVER RANGE INDICATION "1"
- LOW BATTERY INDICATION "BT"
- SUPPLIED COMPLETE WITH TEST LEADS, BATTERY AND CARRYING CASE
- OPTIONAL AC ADAPTOR AVAILABLE

Extraordinary performance and value in a low cost battery operated DMM. Outstanding features include Auto Polarity/Zero, Auto Overload indication, Low Battery indication and floating decimal. Protected against overload on all ranges. Current ranges protected by both diodes and a fuse. Supplied complete with deluxe carrying case.

### SPECIFICATIONS

DC VOLTAGE: 0.2, 2, 20, 200, 1000V AC VOLTAGE: 0.2, 2, 20, 200, 700V DC CURRENT: 0.2, 2, 20, 200mA, 1A. AC CURRENT: 0.2, 2, 20, 200mA, 1A RESISTANCE: 200 ohm, 2, 20, 200, 2 megohm, 20 megohm. ACCURACY: 0.9% Typical DCV Accuracy, .2% of full scale +/- 1 digit. BATTERIES: One 9V (006P rectangular).

**Assembled**

## PLD-2 low capacity/10:1 probe



For use with wideband oscilloscopes to 40MHz and most frequency counters. Slim-body, lightweight construction, three-position switch for 10:1 or direct modes. BNC connector. All accessories included.

### SPECIFICATIONS:

AT X10 POSITION: Attenuation; 1/10 +/- 2%, Frequency range; dc-40 MHz, Input resistance: 10 megohm (Connected to oscilloscope of 1 megohm input), Maximum input; 250 VRMS or 600 Vdc, Compensation range; 20 to 40 pF.

AT X1 POSITION: Frequency range; DC-5 MHz, Input resistance; 1 megohm (Connected to oscilloscope of 1 megohm input), Input capacity; Less than 250 pF (Connected to oscilloscope of less than 50 pF), Maximum input; 250 VRMS or 600 Vdc, Connector; BNC, Cable Length; 4'9" (1.47m).

**Assembled**

New industry leader in price and performance!

# 275 3 1/2 digit LCD digital multimeter

## NEW!



**INCLUDES CARRYING CASE**

- AUTO POLARITY, AUTO ZERO • 14 RANGES
- ACCURACY BETTER THAN 0.8% DCV
- FULLY OVERLOAD PROTECTED
- 10 MEGOHM INPUT IMPEDANCE
- OVER RANGE INDICATION "1"
- LOW BATTERY INDICATION "BT"
- SUPPLIED COMPLETE WITH TEST LEADS, BATTERY AND CARRYING CASE

Digital accuracy at Lowest cost. New 4 function, 9 volt battery operated portable DMM is supplied complete with carrying case. Outstanding features include Auto Polarity/Zero, Auto Overload indication, Low Battery indication and floating decimal. Protected against overload on all ranges. Current ranges protected by both diodes and a fuse.

### SPECIFICATIONS:

DC VOLTAGE: 0.2, 2, 20, 200, 1000V AC VOLTAGE: 0, 200, 500V. DC CURRENT: 0, 2, 20, 200mA. RESISTANCE: 2, 20, 200K ohm, 2 megohm. ACCURACY: 1.0% Typical DCV Accuracy, .2% of full scale +/- digit BATTERIES: One 9V (006P rectangular).

**Assembled**

## BT-1 BATTERY TESTER



- ACCURATELY TESTS ALL POPULAR TESTS
- 1 1/2 VOLT AA, C & D CELLS, 9V BATTERIES USED IN WATCHES, CALCULATORS, ETC.

Tests all popular types: 1 1/2 V-AA, C, D and 9V batteries; 1.35-1.65V watch and calculator batteries and 1.35-4.5V hearing-aid batteries. Tests silver oxide, mercury, carbon-zinc and alkaline. Test is made accurately with proper load connected across battery terminals. Large easy-to-read color-coded scale. Non-polar test leads and instructions incl. 4 x 3 x 1 1/4."

**Assembled**

Extraordinary Performance and Value!

# 270 digital multimeter kit



- Flashing Over-Range Indicator
- 3 1/2 Digits
- Auto Polarity, Overload Protected

Featuring 3 1/2 digits, the EICO 270 is a compact, battery-operated DMM that belongs on every test bench and in every field service caddy. It measures AC and DC Volts, AC and DC Current, and Resistance in 21 ranges. Polarity indicators and overload protection are provided, and 0.5 inch LED displays give easiest-to-read digital readout to 1999. The 270 has a basic 0.5% DC accuracy, 10 Megohm input impedance, low voltage drop in all current ranges, automatically-flashing over-range indicator when input exceeds the value of the range selected.

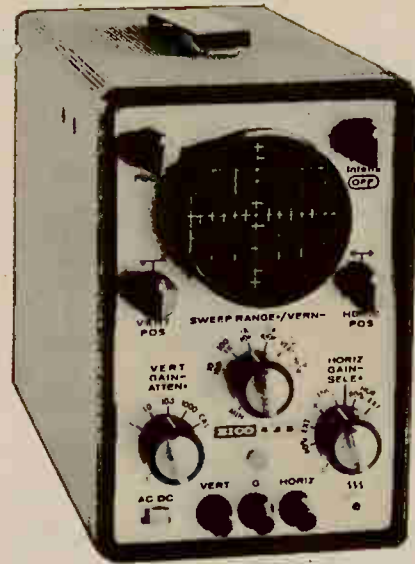
### SPECIFICATIONS

**RANGE:** 4 ranges-2, 20, 200, and 2000 for all functions (additional 20  
**ACCURACY** (Lowest range, other ranges slightly higher): DC volts  $\pm 0.3\%$  of reading. AC Volts, AC current  $\pm 0.7\%$  of reading  $\pm 0.3\%$  of full scale. DC current, resistance 0.5% of reading. For all ranges add  $\pm 1$  digit to accuracy indicated. **READING RATE:** 2 1/2 per second on DC and K ohm range. **OPERATING TEMPERATURE RANGE:** 0° to 50°C. **POWER SOURCE:** Four "c" size batteries alkaline, or carbon-zinc with jack for AC adaptor. (Batteries and AC adaptor not supplied). **CURRENT CONSUMPTION:** Less than 100 mA. **BATTERY LIFE:** Better than 50 hours of continuous use with alkaline batteries. **SIZE (HWD):** 7 1/4" X 5" X 2 3/8". **WEIGHT:** 1 1/2 lbs.

Kit only

Lightweight and Portable!

# 435 wideband dc 3" oscilloscope



- 18 mV rms/cm Sensitivity
- TV-V and TV-H Sweeps
- Zener Diode Calibration
- DC-4, 5 MHz Flat Response

The Model 435 is really portable (1/3 the usual size of 5" scopes), yet provides outstanding facilities and fine performance. Push-pull amplification (3 stages) and direct-coupling throughout the vertical amplifier. With the Zener diode calibration facility and the 4-position frequency-compensated decade attenuator, either DC or peak-to-peak AC (or combination) measurements may be made from 50 mV to 500 V. Clarity and detail are obtained with a sharp and bright trace (1600 V accelerating potential) on a flat-faced CRT; and distortionless V & H trace expansion is provided with drift-free V & H positioning up to many screen diameters. A mu-metal neck shield on the CRT minimizes the effect of external fields. Intensity and focus controls, and sawtooth (sweep) output are provided on the front panel; intensity modulation input is provided at the rear. DC balance and astigmatism adjusts are accessible without cabinet removal. Edge-lit calibration grid.

### SPECIFICATIONS

**VERTICAL AMPLIFIER:** Frequency response from DC to 4.5 MHz, +1, -3 db (useful to 10 MHz); sensitivity 18 mV rms/cm (50 mV p-p/cm); input impedance 1 Megohm/35 pf. **HORIZONTAL AMPLIFIER:** Frequency response from 1 Hz to 500 kHz, +1, -3 db; sensitivity 0.7 V rms/cm; input impedance 4 Megohms/40 pf. **SWEEP RANGES:** 10-1 100 Hz, 100-1000 Hz, 1-10 kHz, 10-100 kHz; plus TV-VERT position (30 Hz) and TV-H HOR position (7875 Hz). Synchronization may be (+) or (-) internal, external or line frequency. **POWER REQUIREMENTS:** 117 VAC, consumption approximately 110 watts. **SIZE (HWD):** 8 1/2" X 5 1/2" X 12 3/4". **WEIGHT:** 18 lbs.

\*Export Model Available.

Kit

Assembled

## scope accessory probes

## Probes to Add Versatility and Flexibility to Your 'Scope!



**PSD 'Scope Demodulator Probe** For signal tracing and checking of TV/radio RF and IF stages. Permits scope to be used as waveform tracer, gain analyzer and alignment indicator in all stages. Demodulates AM carriers between 150 kHz and 250 MHz. **Kit Assembled**

**PD Direct Probe** Use in low frequency or low impedance circuits. Direct Test Probe eliminates stray pick-up and signal re-radiation. **Kit Assembled**

**PLC Low Capacity Probe** For tracing TV sync signals and general tests in video, sync and sweep circuits. Hi-Z, low capacity probe is useful for waveform tracing in high-impedance, high frequency and wideband circuits (as in TV), without distortion from overloading or frequency discrimination. **Kit Assembled**



Distortion-Free!

# 378 audio generator



- Switch Selectable Frequency Output
- One Hz to 110 kHz    ■ Metered Output Voltage
- Output Attenuated in 8 Steps

Especially designed for today's need for precision, versatility and reliability in audio testing and signalling. Extreme versatility and positive error elimination are now yours for: testing audio amplifiers for gain and frequency response, as a signal source for various bridge measuring circuits, for modulation or RF signal generators, or any other applications where a stable, accurate audio sine wave signal over a very wide range of frequencies must be used. The 378 produces a very low distortion signal. Unlike most other audio generators that require interpretation of a dial setting with possible error, the frequency-determining elements of the 378 are not continuously variable. This results in a precisely metered output controlled by 8-position and fine attenuators. The output level of this instrument can be set with precision between 0 and 10 volts RMS (or between -70 and +22 db) on a 4½", 2% full-scale accuracy meter. For a complete audio test lab, team the 378 with the EICQ 902 IM/Harmonic Distortion Meter.

### SPECIFICATIONS

Switch selectable frequency output from Hz to kHz: One Hz steps (1-110 Hz); 10 Hz steps (10-1100 Hz); 100 Hz steps (100 Hz - 1.1 kHz); FREQUENCY ACCURACY: ±5%. DISTORTION: Less than 0.1%, 20 Hz - 20 MHz. OUTPUT VOLTAGE RANGES: 0-3, 10 V into hi-Z (10 kΩ min.); 0-003, .01, .03, .1, .3, 1 V into ext. or int. 600 ohm load. OUTPUT METER ACCURACY: ±5% of full scale. POWER REQUIREMENTS: 120 V, 50/60 Hz, 40 watts. SIZE: (HWD) 8½" X 12½" X 9". WEIGHT: 16 lbs.

\*Export Model Available.

Kit                      Assembled

## PSI-1 signal injector probe



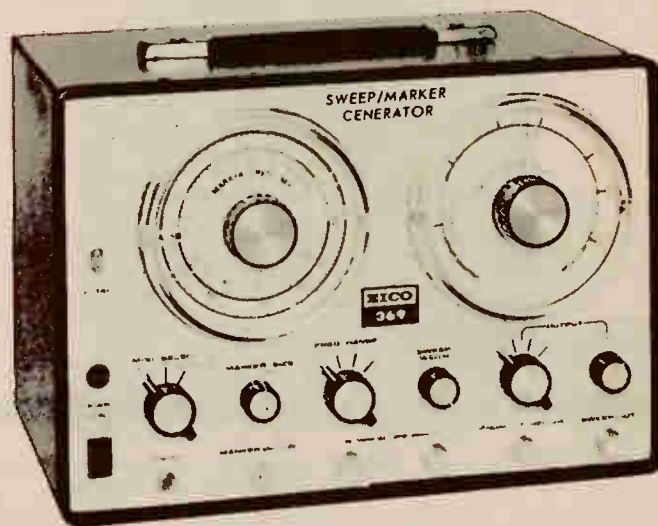
If you troubleshoot by signal tracing, you'll find this an invaluable tool. Carry it in your pocket when you go on field service calls, and you can inject signal whenever and wherever you need it. Just press the button! The PSI-1 injects signals rich in harmonics and you control volume by spacing the inductive coupling to the unit under test.

SPECIFICATIONS: 1 kHz with harmonics to 30 MHz. OUTPUT VOLTAGE: 50 V peak-to-peak, open circuit. OUTPUT IMPEDANCE: 10 kΩ capacitive. INPUT: DC volts 600. Max. POWER SOURCE: Two 1.5 V batteries. SIZE: 5¾" long, ½" O.D. WEIGHT: One oz.

Kit                      Assembled

Advanced Service Capability For Your Test Bench!

# 369 sweep/marker generator



- Frequency Range 2-250 MHz
- New Improved Solid State Circuit Design
- Both Variable and Crystal Marker Oscillators
- Post Injection Marker Circuit • Complete with Cables

The new Solid State EICO 369 has unequalled design features including controllable inductor sweep, variable and crystal marker oscillators, as well as a built-in post injection marker-adder. The 369 provides the easiest, fastest visual alignment of color or black-and-white TV, CATV and FM receiver RF and IF circuits. Use it with any fine wide-band scope such as the EICO 460 or 482. The controllable inductor sweep circuit is purely electronic and has no mechanical parts to wear out. Five fundamental sweep ranges are provided from 2-250 MHz. The variable marker generator has 4 ranges covering 2-250 MHz. A crystal marker oscillator is provided that can be used to calibrate the variable marker dial. A 4.5MHz crystal is supplied for TV sound alignment. With the EICO 369 circuit response is not affected by markers, and markers are not affected by circuit response. Separate level controls for trace size and marker size on the front panel can be used independently.

### SPECIFICATIONS

SWEEP GENERATOR: FREQUENCY RANGE: 2-250 MHz, continuously adjustable, SWEEP WIDTH: 20MHz, maximum, SWEEP RATE: At line frequency, 60 or 50Hz. OUTPUT VOLTAGE: 0-50mV, approx., from a 75 ohm source, LINEARITY: Within 10%. MARKER GENERATOR: FREQUENCY RANGE: 2-250MHz in four bands. CRYSTAL OSCILLATOR: 1-14MHz. MARKER METHOD: post-injection, internal or with external signal. MODULATION: Internal 1KHz for AM. POWER SUPPLY: 115V, 50/60Hz, as specified 8VA; approx. SIZE (HWD):

Assembled

## PST-2 signal tracer probe

This penlight-sized instrument is a versatile service tool. The high-gain amplifier with a useable bandwidth from 500 Hz to 200 kHz can be extended to 200 MHz by means of the snap-on demodulator tip.



SPECIFICATIONS: FREQUENCY: 1 kHz approximately with harmonics to 30 MHz. OUTPUT VOLTAGE: Approximately 50 volts peak-to-peak open circuit. OUTPUT IMPEDANCE: 10 kΩ capacitive. INPUT DC VOLTAGE: 600 volts max. from output tip to case ground. POWER SOURCE: Two 1.5 volt batteries (Burgess No. NE, Everready No. 912 or equivalent). SIZE: 5¾" long by ½" O.D. WEIGHT: One oz.

Kit                      Assembled

# 150 solid state signal tracer



Here is a real "every-day" professional aid to convenient and rapid trouble shooting of both solid-state and vacuum tube equipment. This multi-purpose RF and audio signal tracer provides everything you need to track down defects in AM, FM, and TV receivers as well as in high fidelity and public address systems. You can easily and rapidly locate the defective sections in any audio or RF equipment. Two shielded probes are used for fast signal tracing of both RF and audio circuits. Both speaker and meter output indicators are provided. Thus, you can judge the quality of the equipment under test audibly on the built-in speaker as well as visually on the meter. The meter can also be used to accurately compare several different signal levels. The output can also be checked using an external load and oscilloscope.

The Model 150 also provides a substitution, output transformer and speaker. The output transformer can be substituted for a questionable one in any vacuum tube or transistor amplifier. Similarly, the 8-ohm speaker, mounted on the front panel of the Model 150 may be used as a substitute for a suspected defective one in the equipment under test.

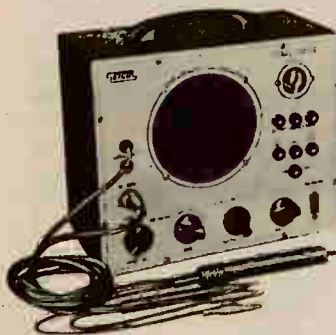
#### SPECIFICATIONS

OUTPUT: 400 mW; INPUT FOR RATED OUTPUT: RF - 1 mV, audio - 63 mV; HUM: Better than 60 db below 400 mV. METER: 200 microampere movement. POWER REQUIREMENTS: 105-132 volts AC, 50/60 Hz, 5 VA. SIZE (HWD): 7 1/2" X 8 1/2" X 5". WEIGHT: 6 lbs.

\*Export Model Available.

Kit Assembled

# 147 signal tracer



Two separate input channels assure maximum applicability to both RF and audio work. Magic eye tube and speaker provide both visual and aural signal monitoring. Calibrated wattmeter to measure power consumption of equipment being tested. Output for VTVM or oscilloscope. Built-in transformer or speaker may be used as substitutes for suspected components in defective equipment. Complete with shielded RF crystal demodulator and direct probes.

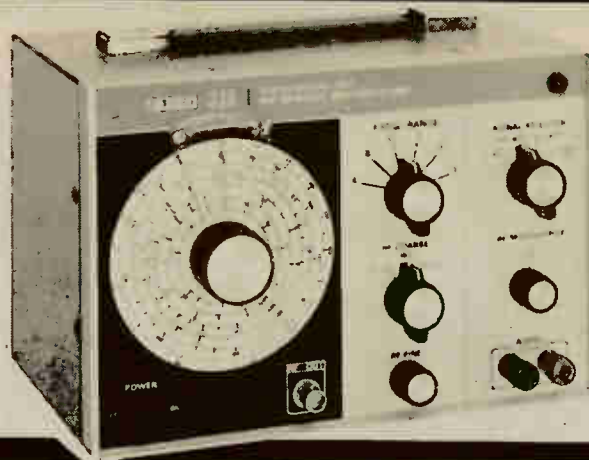
#### SPECIFICATIONS:

POWER REQUIREMENTS: 105-125 VAC, 50/60 Hz. SIZE (HWD): 8" X 10" X 4 1/4". WEIGHT: 11 lbs.

\*Export Model Available.

8 Kit Assembled

# 330 solid state rf signal generator



This wide-range solid-state RF signal generator is an invaluable tool for aligning television sets, AM, FM radios, CB and other types of communications equipment. The range from 100 kHz to 54 MHz is covered in five fundamental bands. Coarse and fine level controls assure accurate setting of both the modulated and unmodulated RF output.

A low-distortion 400 Hz is generated by a parallel "T" feedback circuit around a low-noise transistor. This signal is available at the front panel for testing audio equipment and the audio section of a radio or TV set. The audio signal is also used to modulate all RF frequencies generated by the Model 330. A modulation level control on the front panel lets you set the percentage modulation up to 100%. An input is also provided for modulation from an external source.

All functions are chosen with the Signal Selector Switch. You can conveniently pick the required radio frequency signal by placing this switch in the applicable position.

#### SPECIFICATIONS

RF FUNDAMENTAL FREQUENCIES: 100 kHz to 54 MHz in 5 bands. OUTPUT: More than 300,000 microvolts into 50 ohm load. RF COARSE ATTENUATION: 3 steps. RF FINE ATTENUATION: 0-100%. INTERNAL MODULATION: Approximately 400 Hz from 0 to 100%. POWER REQUIREMENTS: 105-132 volts, 50/60 Hz, 1.7 VA. SIZE (HWD): 7 1/2" X 8 1/2" X 5". WEIGHT: 5 lbs.

\*Export Model Available.

Kit Assembled

# 324 rf signal generator

A rugged, dependable unit which has proven itself over many years. Provides fundamental frequencies from 150 kHz to 145 MHz in six bands and calibrated harmonics to 435 MHz vernier tuning. Modulate signal using built-in 400 Hz oscillator or an external source. Step and continuously variable attenuators are adjustable from the front panel. 400 Hz signal can be used for testing audio circuits. Shielded RF output cable included.



#### SPECIFICATIONS:

RF OUTPUT FREQUENCY RANGE: 150 kHz to 145 MHz on fundamentals in 6 bands. 111 MHz to 435 MHz on calibrated harmonics. TUNING DIAL CALIBRATION ACCURACY: ±1.5%. RF COARSE ATTENUATION: In two steps, each approximately 20 db. RF FINE ATTENUATION: Continuous 0 to max. INTERNAL AF MODULATING FREQUENCY: Approx. 400 Hz. POWER REQUIREMENTS: 117 VAC, 60 Hz, 8 watts. SIZE (HWD): 8" X 10" X 4 1/4". WEIGHT: 8 lbs.

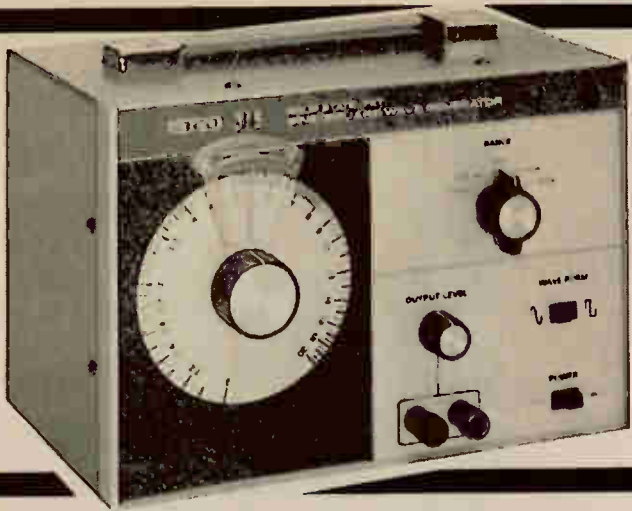
\*Export Model Available.

Kit Assembled



Simultaneous Sine and Square Wave Outputs!

# 379 solid state sine/square wave generator



Here is a truly professional wide-range signal generator that covers 20 Hz to 2 MHz in five bands. Its low-distortion Sulzer feedback circuit using an FET, provides clean signals over the entire frequency range for all types of testing. The sinusoidal output voltage can be varied from 0 to 7.5 volts when driving a high-impedance load, and up to 6.5 volts when driving a 600-ohm load. Careful circuit design keeps variation in output level within  $\pm 1$  db on the four lowest bands and within  $\pm 2$  db on the high band. Although the distortion is specified as 0.25%, it is actually less than 0.1% over much of the audio spectrum. Simultaneously with the sine wave signals at one pair of output terminals, excellent square waves of identical frequency appear at the second pair. The square-wave output covers a range from 20 Hz to 200 kHz - only one decade less than the range covered by the sine-wave output. Output at the square wave terminals can be varied from 0 to 10 volts peak-to-peak.

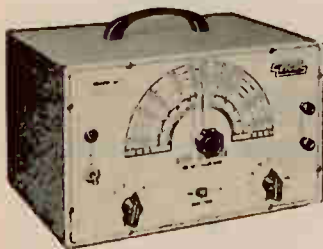
### SPECIFICATIONS

**FREQUENCY RANGE:** Sine wave - 20 Hz to 2 MHz, square wave - 20 Hz to 200 kHz. **OUTPUT VOLTAGE:** Sine wave - 0 - 7.5 volts RMS into high-impedance output, 0-6.5 volts into 600 ohms. Square wave - 0 - 10 volts peak-to-peak into high impedance, positive direction with zero ground. **CALIBRATION ACCURACY:** -3% except for 5% 20 Hz to 100 Hz and 1 MHz to 2 MHz. **MAXIMUM DISTORTION ACROSS AUDIO RANGE:** 0.25%. **RISE TIME AT 20 kHz:** Less than 0.1 microseconds. **POWER REQUIREMENTS:** 105-132 volts; 50/60 Hz AC, 10 VA. **SIZE (HWD):** 7 1/4" x 8 1/2" x 8 1/2". **WEIGHT:** 9 lbs.

\*Export Model Available.

Kit Assembled

# 377 sine/square wave generator



Fills requirements of audio engineer, technician and hobbyist. Frequency range: 20-200,000 Hz on sine wave, 60-30,000 Hz square wave. Output voltage: 10 V across 100 ohms. Distortion: less than 1%. Because the output is constant over a wide frequency range, the distortion is low and the square wave has a good rise time.

### SPECIFICATIONS:

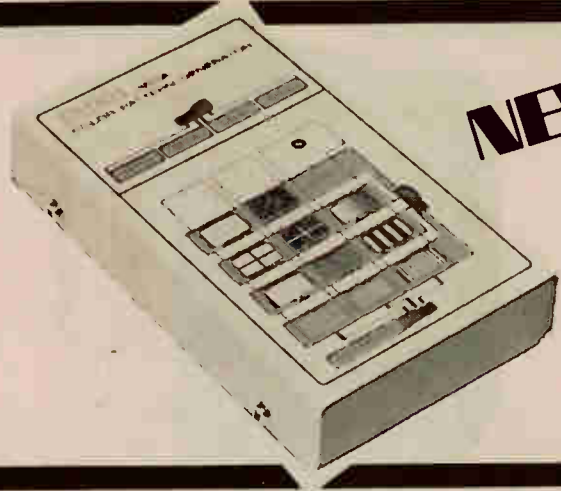
**FREQUENCY RANGE:** Sine wave - 20-200,000 Hz in 4 bands; square wave - 60-30,000 Hz (5% tilt at 60 Hz, 5% rounding at 30,000 Hz). **CALIBRATION ACCURACY:**  $\pm 3\%$  or 1 Hz, whichever is greater. **OUTPUT VOLTAGE:** 10V across 10,000 ohms or higher. **DISTORTION:** Less than 1%. **HUM:** Less than 0.4% of rated output. **POWER REQUIREMENTS:** 117 VAC, 60 Hz, 50 watts. **SIZE (HWD):** 7 1/4" x 11 1/2" x 7 3/4". **WEIGHT:** 13 lbs.

\*Export Model Available.

Kit Assembled

Digital Logic IC Design for Compact Reliability

# 388 portable IC color bar pattern generator



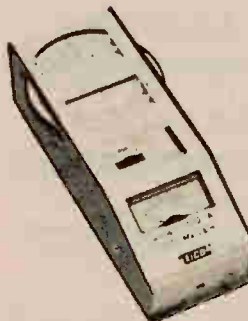
The 388 is truly the most advanced pocket-size color generator. A single MOS LSI IC provides 11 digitally controlled, stable FCC-Specified patterns. The 388 operates by simply connecting its output cable to the TV's VHF terminals. Two matrix slide switches select any one of the 11 patterns. The RF carrier frequency is adjustable for coverage on channels 3,4, or 7. Harmonics of 7 ch provides usable UHF signals on channels 23 and 51. Crystal controlled chroma and timing oscillators assure precision, accuracy and stability. Video output signal switch enables you to locate color shifts and internal ghosts from IF or Video Stages. A non-modulated carrier signal is available for frequency calibration at BATTERY CHECK position. 75 ohm RF output impedance, usable up to 300 ohm antenna input. One 9-volt battery provides a minimum of 16 hours of continuous operation before replacement is required. To test battery condition, a battery-check LED indicator is provided.

### SPECIFICATIONS

**VIDEO OUTPUT:** 0-500mV, 750ohm. **RF OUTPUT FREQUENCIES:** a) CH-A (3ch): 61.25MHz b) CH-B (4ch): 67.25MHz c) CH-C (ch7) 175.25MHz d) (23ch): 525.75MHz (harmonics of CH-C) e) (52ch): 876.25MHz (Harmonics of CH-C). **RF OUTPUT:** 0-25mVrms, 75ohm. **SUBCARRIER:** 3.563795MHz. **BATTERY OPERATIVE VOLTAGE:** 6-10V. **BATTERY:** 9V (006P) or equivalent. **BATTERY CHECK:** LED indicator. **CURRENT DRAIN:** approx. 10mA. **SIZE & WEIGHT:** approx. 90 x 150 x 35mm, 500g. **ACCESSORIES:** Output cable.

Assembled

# 710-A grid-dip meter



- New Solid State Design
- Battery Operated

Invaluable for determining frequency of other oscillators or tuned circuits. With it, transmitters and transceivers can be pre-tuned. Exceptionally stable circuit and diode detector give a better, cleaner "dip" on the easy-to-read meter. Also useable as absorption-type frequency meter. Complete with six numerically coded plug-in coils which cover all broadcast, FM, amateur and TV bands in 8 overlapping ranges.

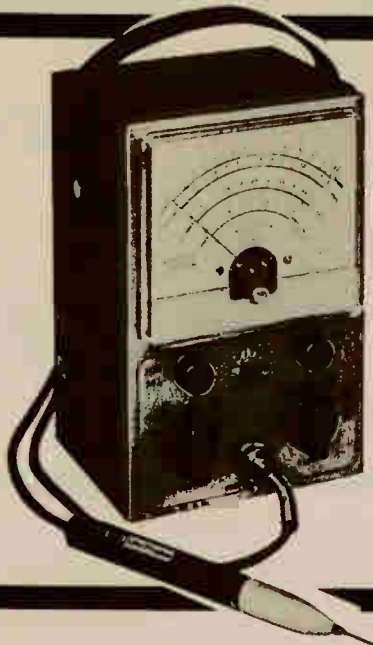
### SPECIFICATIONS:

**FREQUENCY RANGE:** 1.5 to 250 MHz with 6 plug-in coils. **METER MOVEMENT:** 500 microampere. **MODULATION:** Approximately 2kHz; sine wave **CRYSTAL OSCILLATOR:** 1-15 MHz **POWER SUPPLY:** 9 Volt battery; 006p, or equivalent **CURRENT CONSUMPTION:** 2mA, Max. **SIZE (HWD):** 2" x 2 5/8" x 7". **WEIGHT:** 1.1 lbs.

Assembled 9

The Established Leader in the VTVM Field!

# 232 peak-to-peak vtvm



- 7 Non-Skip Ranges on Every Function
- Calibration Without Cabinet Removal
- Dual-Purpose AC/DC Uni-Probe

By far the best professional VTVM value in electronics, the 232 features performance proven circuitry, and functional simplicity.

Use the 232 for all your TV/FM/AM electronic servicing with the highest accuracy, getting true peak-to-peak measurements of complex voltage waveforms (necessary in TV servicing) and both peak-to-peak and RMS measurement of sine wave AC voltages on separate scales.

A balance bridge circuit yields exceptional stability and accuracy and the high impedance input results in negligible circuit loading. As an important safety feature, the large 4½" meter can't burn out—due to the built-in protective circuit. There are seven non-skip ranges on all four functions. Other features that make the 232 a valuable addition to the service bench are: Zero center for TV-FM discriminator alignment, one zero adjustment for all functions and ranges.

### SPECIFICATIONS

PEAK-TO-PEAK AC RANGES: 0-4, 14, 42, 140, 420, 1400, 4200 volts. RMS SINE VOLTAGE RANGES: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. DC VOLTAGE RANGES: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. Reads up to 30,000 volts with HVP probe using 1090 Megohm Multiplier Resistor. FREQUENCY RESPONSE: 30 Hz to 3 MHz (up to 250 MHz with PRF probe). OHMMETER: 0.2 ohms to 1000 Megohms in 7 ranges. BATTERY: 1.5 volt. WEIGHT: 5 lbs. POWER REQUIREMENTS: 117 VAC, 60 Hz, 5 watts. SIZE (HWD): 8½" X 5" X 5". INPUT IMPEDANCE: 11 Megohms. \*Export Model Available.

Kit                      Assembled

## DLP-6 digital logic probe

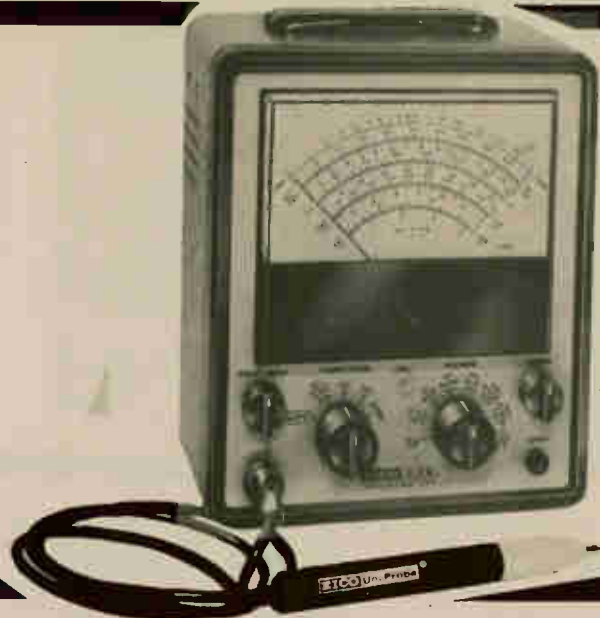


Detects pulses as short as 50 nanoseconds. Indicating the logic state of a circuit, the all-new Eico IC Digital Logic Memory Probe provides detection capabilities for pulse durations as short as 50 nanoseconds. Indicator system consists of three light-emitting diodes (LED's). Bottom LED lights for logic 0; top LED lights for logic 1. Center LED comes on to indicate positive or negative going transition. Remains in on state for 200 ns regardless of pulse duration. Memory switch causes stretch LED to remain on permanently after positive or negative pulse occurs. Logic levels can be tested on any DTL or TTL IC system, including calculators, numerical control systems, computers or telephone systems.

Kit                      Assembled

The Solid-State Specialist!

# 235 professional vtvm



- 1/2-Volt Full Scale DC Transistor Servicing Range
- Deluxe Full-View 6" 200 Microamp Meter Movement
- Dual Purpose AC/DC Uni-Probe

The Model 235 is especially qualified for the exacting measurements encountered in solid-state circuitry. Accurate measurements down to 0.01 volts are quick and certain. Both peak-to-peak and RMS AC voltages are read on separate scales in 7 overlapping ranges, up to 4.2 kV. With its frequency response of 30 Hz to 3 MHz (and up to 250 MHz with optional probe), the EICO 235 is ideal for all high-frequency measurements. Its very high input impedance (11 Megohms) assures negligible circuit loading in precision DC voltage measurements from 0.01 volts to 1.5 kV (in 8 overlapping ranges); and to 30 kV with the optional probe. (See EICO Model HVP-2) Additional professional features of the 235 include: Ceramic switches, 1% tolerance precision resistors, seven overlapping resistance ranges, zero-center adjustment for all functions and ranges, and a transformer powered supply.

### SPECIFICATIONS

8 DC RANGES: 0-0.5-1.5-5-15-50-150-500-1500 (to 30,000 volts with optional high voltage probe). 7 AC PEAK-TO-PEAK RANGES: 0-4-14-42-140-420-1400-4200. 7 AC RMS RANGES: 0-1.5-5-15-50-150-500-1500. 7 RESISTANCE RANGES covering: 0.2 Ohms to 1000 Megohms. FREQUENCY RESPONSE: 30 Hz to 3 MHz ± 1 db (up to 250 MHz with optional PRF probe). INPUT RESISTANCE: DC 11 Megohm; AC 1 Megohm shunted by 60 pf. POWER REQUIREMENTS: 117 VAC, 50 or 60 Hz; 6 watts. 1% precision multiplier resistors. 3% accuracy on AC and DC scales. DIMENSIONS (HWD): 8½" X 7½" X 5". WEIGHT: 9 lbs. Supplied less battery - 1 "D" cell required.

\*Export Model Available

Assembled

## 250 ac vtvm & amplifier



This laboratory-quality instrument is designed to accurately measure AC voltages from 1 mv to 300 v RMS at any frequency from 10 Hz to 600 kHz. Measure line, output and noise voltages quickly and accurately.

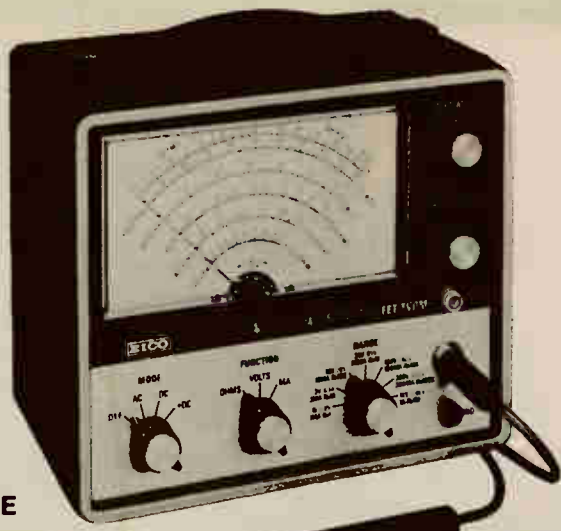
**SPECIFICATIONS:** VTVM VOLTAGE RANGES: 1, 3, 10, 30, 100, 300 RMS millivolts. 1, 3, 10, 30, 100, 300 RMS volts. DECIBEL RANGE: -80 to +52 in 12 ranges. INPUT IMPEDANCE: 10 megohms. AMP. OUTPUT VOLTAGE: 5 RMS volts. INPUT IMPEDANCE: 10 megohms. POWER 105-125 VAC, 60 Hz., 15 watts. SIZE (HWD): 8½" X 5¼" X 7". WEIGHT: 10 lbs.

\*Export Model Available.

Assembled



# 242 solid state fet-tvom



Includes  
UNI-PROBE

- Big 6 1/2" Meter Movement for Improved Reading Accuracy
- Measures Resistance in Semiconductor Circuits

The Model 242 solid-state FET-TVOM combines all of the capabilities of the Model 239 with numerous additional features. There is a big 6 1/2" meter for easier, more accurate readings. The added versatility of seven non-skip milliampere ranges and the extremely low voltage ohmmeter which adds convenience and versatility when testing semiconductor circuits. The highly accurate milliammeter section of the EICO Model 242 can be used for both AC and DC measurements from 10 microamperes to one ampere in seven convenient 10 db steps. The precision meter responds to peak-to-peak currents as well as voltages, on the seven AC ranges. However, the meter scale is calibrated to both peak-to-peak and the equivalent sinusoidal RMS voltages and currents for easy interpretation.

The Model 242 also incorporates the time saving single all purpose DC/AC/OHMS/MA Multi-Probe so that you use only one lead for all measurements.

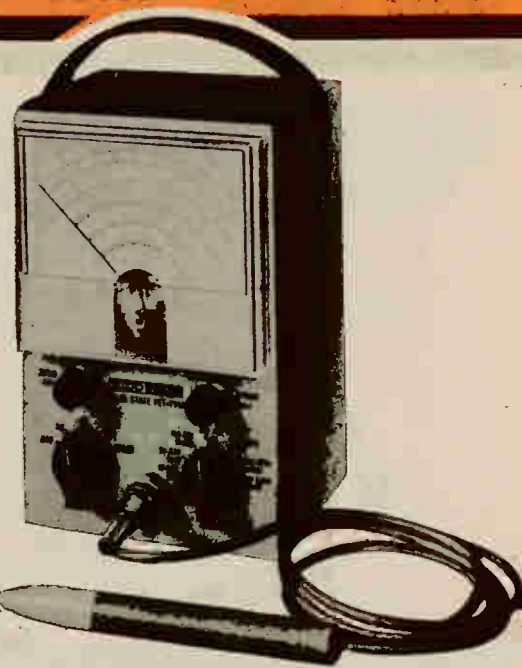
#### SPECIFICATIONS

Same as Model 239 except for the following: AC & DC Current ranges in MA same as voltages range on 242; OHM METER: Low-voltage type. METER MOVEMENT: 6 1/2" SIZE: (HWD) 7 1/2" X 8 1/2" X 5". WEIGHT: 6 lbs. POWER REQUIREMENTS: 105-1132 volts AC, or 3 NEDA #1604-9 volt batteries and 1 - 1.5 volt size "D" cell; 1.4 VA.

Kit

Assembled

# 239 solid state fet-tvom



Includes  
UNI-PROBE

- Compact, portable, battery-operated
- Measures peak-to-peak AC Voltages

Ideal for semiconductor circuit testing, the Model 239 features 1-volt scale for accurate readings as low as 0.05 volts. Provides good indications down to 0.01 volt. Other scales provide accurate readings up to 1000 volts and with high-voltage probe (not included) voltage range can be increased to 30,000 volts. Large, easy-to-read (4 1/2" 200µA) meter is calibrated in seven ranges of peak-to-peak and equivalent sine wave RMS.

Ohmmeter covers 0.2 to 1000 Megohms in seven steps. Applied voltage is low enough to protect sensitive components, yet high enough to provide accurate testing of diodes and transistors. High stability and accuracy provided by balanced transistor meter circuit and 1% precision resistors. The advanced-design FET input stage provides extremely high input impedance (11 Megohms DC). The FET is fully protected against damage by fast-acting semiconductor and capacitor circuits. Another convenient feature of the Model 239 is the time-saving single probe for all measurements thereby eliminating the tangle of wires usually associated with similar multimeters.

#### SPECIFICATIONS

AC RMS SINE WAVE AND DC VOLTAGE RANGES: 0-1, 3, 10, 30, 100, 300, 1000 volts; PEAK-TO-PEAK AC VOLTAGE RANGES: 0-2.8, 8.5, 28, 85, 280, 850, 2800 volts; INPUT IMPEDANCE: DC-11 Megohms, AC-1 Megohms; FREQUENCY RESPONSE: 25 Hz to 2 MHz (up to 250 MHz with PRF probe not supplied); OHMMETER: 0.2 ohms to 1000 Megohms in 7 ranges; METER MOVEMENT: 4 1/2" 200 µA movement; POWER REQUIREMENTS: 3 Neda #1604-9 volt batteries and 1-1.5 volt size D cell; SIZE (HWD): 8 1/2" X 5 1/4" X 5"; WEIGHT: 6 lbs.

Kit only

## vtvm accessory probes



**UNI-PROBE UP** Performs all functions. A half-turn of the probe tip selects DC or AC-Ohms. Adapts to EICO or other VTVM's in just 15 minutes. Complete instructions supplied. Supplied less isolating resistor or connector. Use 1 Megohm for all EICO VTVM's. EICO VTVM's use MCIF connectors. Kit Assembled



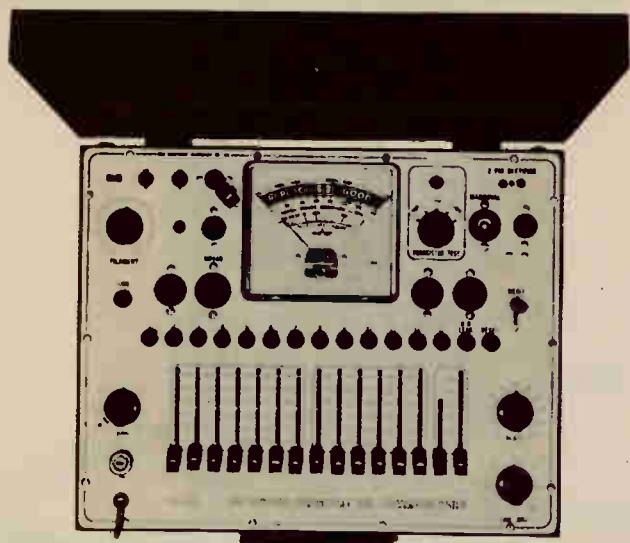
**RF PROBE PRF-11** For voltage measurements at radio frequencies up to 250 MHz. Useful for measuring TV and radio RF and IF stages. Accuracy ±10%. Use with any 11 Megohm VTVM. Supplied less connector. Use PRF-11 for all EICO VTVM's. Kit Assembled



**HIGH-VOLTAGE PROBE HVP-2** For safe measurements up to 30,000 volts DC with any 11 Megohm input VTVM, the HVP-2 is the ideal probe. 1090 meg. for 235, 232, 249; Supplied less connector - Use MCIF for EICO VTVM's. Assembled

Checks Mutual Conductance and Peak Emission!

# 667 dynamic conductance tube & transistor tester



- Tests New Tube Types
- Separate Place, Screen and Grid Voltages
- Individual Element Settings by Level Switches

**TYPES TESTED:** 5- and 7-pin Nuvistors, Novars, Magnoval, Compactrons, 7- and 9-pin miniatures, 9-pin - 1 center pin miniature, 5-, 6- and 7-pin sub-miniature (in-line base), 8-pin sub-miniatures (circular base), Decal, Loctal, Octal, and the special two-pin rectifiers. In addition to receiving types, both domestic and foreign, many small transmitting and special-purpose tubes, voltage regulators, cold-cathode rectifiers, electron-ray indicators and ballast tubes are tested. Tests N-P-N and P-N-P transistors. Pilot lamps are tested in center of Magnoval Socket. Accessory Model CRU adaptor for testing color and black-and-white picture tubes.

**TRANSISTOR TEST:** Two-step test for both N-P-N and P-N-P signal transistors using internal DC power supply.

**DYNAMIC CONDUCTANCE TUBE TEST:** Composite indication of mutual conductance, plate conductance, and peak emission capability. Readings are on both numerical and quality zone scales. Rectifiers tested near maximum rated current for extra accuracy.

**LEAKAGE/SHORT TEST:** Direct-reading of inter-element leakage up to 20 Megohms. DC leakage test voltage is always applied in correct polarity to eliminate emission effects from readings. Accurate heater-cathode leakage achieved by isolation of heater and cathode from remaining tube elements during test. Push-button transfer switches (12) permit rapid insertion of tube elements in leakage test circuit.

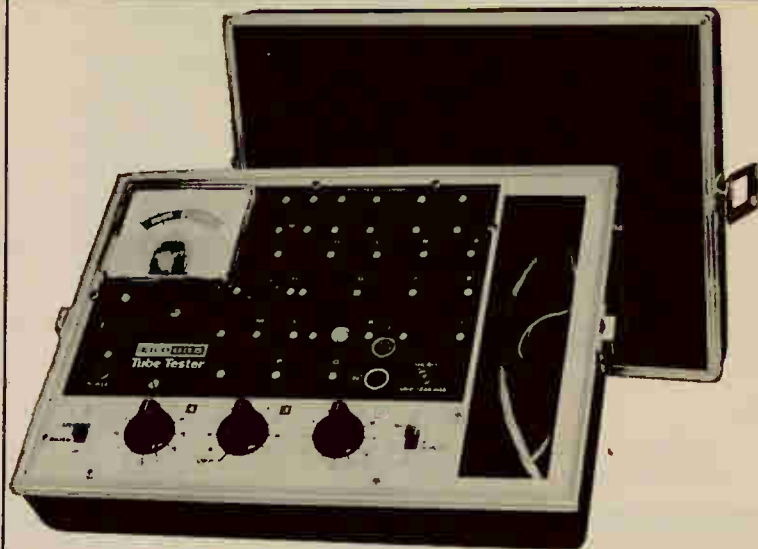
**IMPORTANT FEATURES:** Each active tube element can be individually connected, by 12 six-position individual element lever switches to any of the following busses: plate voltage, screen voltage, grid voltage, filament voltage, ground (cathode and filament return), no connection. Two additional lever switches are used to select from 4 combinations of 3 plate, 3 screen, and 3 ranges of control grid voltage (variable over each range with a 5% accurate wire-wound control) and 5 ranges of meter sensitivity (1% shunts and 5% accurate wire-wound control). Multi-section tubes have each section individually tested by rapid selection from 12 push-button transfer switches while all sections are simultaneously drawing full-rated current. Pentodes are tested as pentodes, with no lumping together of tube elements. Line-adjust rheostat for testing independent of tube filament loading or line voltage variation. Complete tube data manual included.

**POWER:** 105-135 VAC. **SIZE (HWD):** 12" x 15" x 4 1/2". **WEIGHT:** 22 lbs.

**Kit Assembled**

Portable Tester for Home or Shop!

# 635 de-luxe portable all purpose tube tester



- Tests All Standard Tubes, Including The New Decals, Magnovals, 7-pin Nuvistors and Popular TV Pic. Tubes
- Complete With Luggage Case and Tube Manual.

In the field or on the bench, you can fast check nearly any tube with EICO's Model 635. Novars, nuvistors, compactrons, 10-pin types, battery types, auto-radio types, foreign, hi-fi, industrials, decals, magnovals, 7-pin nuvistors, TV picture tubes - You name it, the new 635 will quickly tell you what you need to know to pass or fail the tube! Tests for dynamic cathode emission, grid leakage, gas and shorts. 3 1/2-inch D'Arsonval meter, protected against accidental burnout or overload - in a meter bridge circuit for long-term precision. Neon lamp indicators for shorts, grid leak, and power. Extra-convenience features include long-lasting anti-corrosion, phosphor-bronze contacts in sockets, pin straighteners for all tube types, transformer-isolation power supply. **SIZE (HWD):** 4" x 12 1/2" x 9". **WEIGHT:** 4 1/2 lbs.

**Kit Assembled**

**ATTENTION EICO TUBE TESTER OWNERS:** NEW TUBE DATA AND SUBSCRIPTION PLAN NOW AVAILABLE FOR ALL MODELS. Write to: EICO Tube Data Division, 1744 Rockaway Ave., Hewlett, N.Y. 11557

# 688 transistor/diode quick tester



- Checks Diodes, Transistors, Resistors or Capacitors
- Makes Tests In or Out of Circuit
- Power Limiting Prevents Damage to Unit Being Tested

Connect the EICO 688 to your oscilloscope, and touch the component with the probe. The waveform tells its condition at a glance! All test data is included in a handy reference manual to eliminate fumbling with charts and cards. **SIZE (HWD):** 2 1/2" x 3 1/4" x 5 1/2". **WEIGHT:** 1 lb.

**Kit Assembled**



Designed With The Technician in Mind!

# 536 general purpose vom



- 0-1 Volt Full Scale Range
- 1000 Ohms Per Volt Sensitivity
- Seven AC/DC Voltage Ranges

The EICO 536 gives you seven full-scale AC/DC ranges, to 5000 volts. One unique feature of the 536 is the 1000 ohm/volt meter with a 0-1 volt full-scale range, making possible accurate, low-voltage readings. For example, on an instrument whose lowest full-scale range is ten, one-half volt will deflect the needle only 1/20th of the scale, but on the 536 the one-half volt will deflect the needle to mid-scale, for a highly-precise reading.

### SPECIFICATIONS

AC/DC VOLTAGE RANGES: 0-1, 5, 10, 50, 100, 500, 5000 volts. AC/DC SENSITIVITY: 1000 ohms/volt. AC/DC CURRENT RANGES: 0-1 mA, 10 mA, 0.1 amp, 1 amp. OHMS RANGES: 0-5000 ohms, 100 kilohms, 1 Megohm. DB RANGES: -20 to +69 in 6 ranges. METER: 3" size, 400 microampere movement. SIZE (HWD): 6½" × 3¾" × 2¾". WEIGHT: 3 lbs. Supplied less batteries and leads.

Kit                      Assembled

# 540 appliance/ tester



Designed expressly for "do-it-yourself" home appliance and auto repair - easily finds defects in irons, fans, heaters, TV and radio tubes, batteries, ignition coils, etc. It is an all-in-one MULTI-RANGE AC/DC voltmeter, ammeter, ohmmeter, wattmeter, leakage checker. Extremely versatile, dependable, low in cost. Provides "GOOD-BAD" readings on 6 V and 12 V automobile storage batteries, and permits checking of individual cells.

### SPECIFICATIONS:

VOLTAGE RANGES: 0-7.5, 15, 150, 300 volts (AC/DC). CURRENT RANGE: 0-15 amps; RESISTANCE RANGE: 0-1000 ohms (direct reading). LEAKAGE TEST: Neon lamp circuit. WEIGHT: 3 lbs. SIZE (HWD): 6½" × 3¾" × 3½". Includes leads and batteries.

Kit                      Assembled

Belongs in Every Tool Kit!

# 565 portable vom



Optional Carrying Case SCL-1

- 10 Amp DC Current Range
- 20,000 Ohms Per Volt Sensitivity
- 31 Range, 50 Microvolt Movement

A performance-proven multimeter featuring 20,000 ohms/volt DC sensitivity, the EICO 565 boasts 31 ranges. There are seven accurate DC voltage ranges from 0.25 volt to 5000 volts and -12 db to -55 db. DC current can be measured on five ranges from 50 microamperes to 10 amperes. Resistance is measurable on three ranges to 20 Megohms. Output voltage setting removes DC components when measuring signal voltages. 5% resistors used throughout. Large 4½", 50 microampere meter movement.

### SPECIFICATIONS

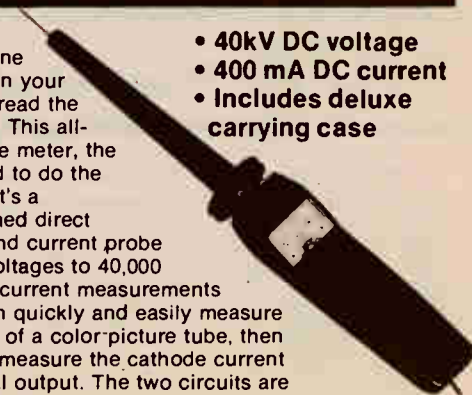
DC VOLTAGE: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 20,000 ohms/volt. AC/OUTPUT VOLTAGE: Ranges 0-2.5, 10, 50, 250, 1000, 5000 volts. Sensitivity 1000 ohms/volt. DC CURRENT: 0-100 ua, 10 mA, 100 mA, 500 mA, 10 amp. DECIBELS: -12 to +55 db in 5 ranges. RESISTANCE: 0-2000 ohms, 0.2 Megohms, 20 Megohms (2 ohms to 20 Megohms). METER: 4½", 50 microampere movement. SIZE (HWD): 6¾" × 5¼" × 3". WEIGHT: 4 lbs. Supplied less batteries and leads.

Kit                      Assembled

# HVP-5 hi-voltage probe

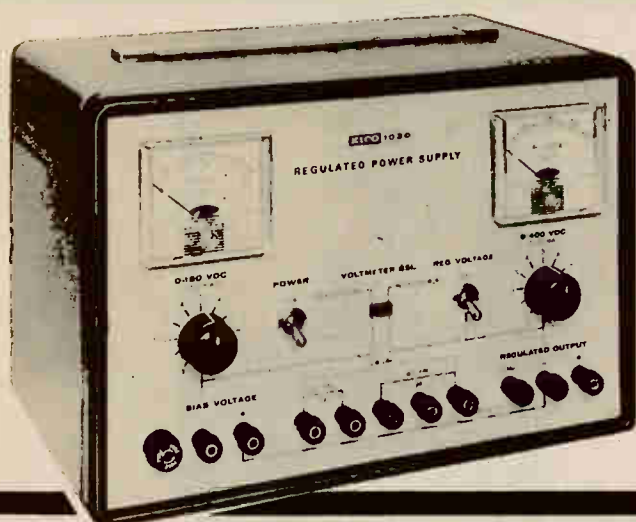
You'll never have to balance a meter with one hand, hold a test lead in your other hand, and try to read the scale at the same time! This all-in-one unit contains the meter, the probe and it's designed to do the complete job for you! It's a completely self-contained direct reading high voltage and current probe that safely measures voltages to 40,000 volts DC and separate current measurements to 400 mA DC. You can quickly and easily measure the high anode voltage of a color picture tube, then by flipping the switch, measure the cathode current drawn by the horizontal output. The two circuits are completely separate only the meter is switched. You can't damage the probe by putting it in a current position while measuring voltage.

- 40kV DC voltage
- 400 mA DC current
- Includes deluxe carrying case



Assembled

# 1030 regulated power supply



- Regulated B+ Continuously Variable 0-400 V DC
- Regulated Bias Supply Continuously Variable 0 to -150 V DC
- Both 6.3 and 12.6 V AC Filament Supplies

A reliable and versatile double power supply than can simultaneously deliver any regulated B+ or regulated bias voltage required for circuit design, production testing, workbench or school experiments.

The EICO 1030 delivers exactly the voltage needed to test any circuit, while simultaneously monitoring both voltage and current used by the circuit being tested.

#### SPECIFICATIONS

REGULATED B+, 0-400 V DC continuously variable; 0-100 mA continuous from 0-200 V DC, 0-125 mA intermittent from 0-200 V DC, 0-150 mA continuous from 200-400 V DC. LOAD REGULATION: Varies less than 1/3% or 0.3 V (whichever is greater) from 0-100 mA. LINE REGULATION: Varies less than 0.4% or 0.5 V (whichever is greater) for a  $\pm 10$  V line variation. RIPPLE: Less than 3 mV RMS. OUTPUT IMPEDANCE: Less than 10 ohms from DC to 1 MHz. REGULATED BIAS SUPPLY: 0 to 150 V DC continuously variable. CURRENT RANGE: 0-2 mA. LINE REGULATION: Varies less than 0.4% or 0.5 V (whichever is greater) for  $\pm 10$  V line variation. RIPPLE: Less than 3 mV RMS. AC FILAMENT SUPPLIES: 6.3 V AC at 3 amperes, and 6.3 V AC at 3 amperes center tapped; 12.6 V AC at 3 amperes by series connection of the two 6.3 V AC windings; and 6.3 V AC at 6 amperes by parallel connection of the two 6.3 V AC windings. METERING: Double-jeweled D'Arsonval Meters: Voltmeter with switched ranges of 0-400 V DC (regulated B+) and 0-200 V DC (regulated bias supply); milliammeter with 0-200 mA scale for monitoring the regulated B+ supply. POWER REQUIREMENTS: 120 V AC, 50/60 Hz, approximately 160 watts. SIZE (HWD): 8½" X 12½" X 9". WEIGHT: 12 lbs.

Kit

Assembled

# 1064 battery eliminator and charger



- Automatic Switching of Ammeter Range as Voltage Ranges Are Selected
- Two DC Voltage Ranges: 0-8 Volts And 0-16 Volts
- Simultaneous Monitoring of Both Voltage and Current

This supply delivers the smooth, undistorted DC necessary for servicing transistorized equipment or for any application where minimum ripple is mandatory. The extra-low ripple output is achieved through the use of a special L-C filter circuit consisting of a very heavy-duty iron choke and a dual 5000 mF, 20-volt electrolytic filter capacitor. The ability of this circuit to handle the full continuous as well as the higher rated intermittent current output of the instrument, without overloading or danger of burnout - on both current ranges - ensures that the many advantages of its highly filtered DC output are available for all conceivable applications. A fused primary and a re-set overload relay on the secondary add to the durability and safety of the 1064. Among the 1064's applications are charging 6 or 12-volt storage batteries and simulating various battery operating voltages. The 1064 also serves well for marine purposes, operating boat lights, radio-telephone, amplifiers, transmitters, bilge pump and other electrical utility units while at dockside, eliminating the need for installing a costly secondary AC lighting system.

#### SPECIFICATIONS

DC OUTPUT VOLTAGE RANGES: (Range selected by 6 - 12 V toggle switch) 0-8 volts, 0-16 volts. CURRENT RATINGS: 0-8 volt range: 10 amps continuous, 20 amps intermittent; 0-16 volt range: 6 amps continuous, 10 amps intermittent. AC RIPPLE: 0-16 volts range: 0.3% at 2 amps, 1% at 6 amps, 1.5% at 10 amps; 0-8 volt range: 1.5% at 2 amps, 2% at 6 amps, 4.5% at 10 amps. METERS: Voltmeter 0-20 volts. Ammeter 0-10, 0-20 amps. POWER REQUIREMENTS: 117 volts AC, 60 Hz; 150 watts. SIZE (HWD): 8½" X 5¾" X 7½". WEIGHT: 16 lbs.

Kit

Assembled

# 1078 metered ac supply, 0-140V



- 0 to 140V AC Adjustable Output Voltage
- Separate Output Ammeter and Voltmeter

The Model 1078 is a variable 0-140 Volt AC power supply. The dual-range ammeter and the voltmeter constantly monitor the output. The supply is ideal for use in laboratories or on the production bench, in a quality-control area or service shop or school. It is perfect for studying performance under varying conditions of load or for exposing component failure by simulating overvoltage conditions.

#### SPECIFICATIONS:

FREQUENCY: 50/60Hz. INPUT VOLTAGE: 120 AC OUTPUT VOLTAGE: 0-140V AC (30-140V AC voltmeter). OUTPUT CURRENT: Two ranges 0-2.5, 0-7.5 amperes. METER ACCURACIES:  $\pm 1-3\%$  of full scale. POWER SWITCH: Disconnects unit from both sides of line in off position. LINE CONNECTION: 3-wire cord and plug. LOAD CONNECTION: 3-wire outlet receptable. SIZE (HWD): 8½" X 5¾" X 7". WEIGHT: 16 lbs.

\*Export Model Available.

Assembled



Operate AC Appliances from Car or Boat Battery!

# 1080 220-watt charger/ inverter



- Operate AC Appliances from Car or Boat Battery
- Portable Power for PA System and Ham Gear
- Does Double Duty as Battery Charger

With 220 watts of power, you can operate many AC operated units from your car or boat battery! Radio, phonograph, CB equipment suddenly becomes mobile when you use the EICO Model 1080. On field trips or family picnics, the 1080 provides a 117 V AC supply for public address systems, for ham equipment, etc. Then, simply flip the switch and the 1080 does double duty as a battery charger. Plug the line cord into any 117 V AC supply, and recharge your car or boat battery! You can use dockside AC or the AC in your home or garage. As a battery charger, the 1080 is rated at 5 amps. It automatically tapers the current to prevent overcharging.

### SPECIFICATIONS

OUTPUT VOLTAGE: 117 V AC, 60 Hz. AC OUTPUT POWER: 220 W. INPUT VOLTAGE: 12 V DC. INPUT CURRENT: 3½ A (no load), 18 A (full load). BATTERY CHARGING RATE: 6 A maximum. SIZE (HWD): 6" X 6" X 8". WEIGHT: 8 lbs.

Kit

Assembled

Regulated Laboratory-Grade DC Power Supply!

# 1032 regulated power supply



- Regulated Against Line and Load Variations
- 0-30 Volts Continuous Output with Loads up to 500 mA
- Voltage and Current Monitored by Meters

Regulated low ripple power supply that provides the voltages and currents most commonly needed in the service shop as well as in the engineering laboratory. It may also be used in the laboratory as a fixed bias supply or for fulfilling any other regulated voltage requirement. The applications are unlimited. The adjustable 0-30 DC volts at the terminals of the instrument is free of major variations with line voltage and load changes.

A regulated DC supply serves many applications in both laboratory and service shop. This unit, small enough to fit on a shelf over a test bench, only needs lead wires connected to the terminals to provide instant and necessary voltages at the technician's finger tips. A front-panel mounted fuse provides protection for the unit should the load current exceed the supply's capabilities. The supply is equipped with a fold-flat handle for easy portability around the shop.

### SPECIFICATIONS

OUTPUT VOLTAGE: 0-30 volts regulated. OUTPUT CURRENT: 0-500 mA. VOLTAGE REGULATION: 0.2 volts change from 0 to maximum load and 105-135 volt line. RIPPLE: Less than 2.5 mV peak-to-peak. POLARITY: Positive. DC VOLTMETER: 0-10 volts, 0-50 volts. DC MILLIAMETER: 0-500 mA. POWER REQUIREMENTS: 105-135 V AC, 50/60 Hz, 30 watts. SIZE (HWD): 3½" X 8" X 4½". WEIGHT: 5 lbs.

\*Export Model Available.

Kit

Assembled

# 1020 power and bias supply



- Complete Supply For Test Applications

A completely transistorized, very low ripple, portable DC power and bias supply providing continuously variable output voltage monitored by a dual range voltmeter (0-6, 0-30 V DC). The maximum permissible load current is 300 mA. The maximum ripple (120 Hz) at full load is only 0.005%. Applications include: a universal power supply for servicing transistor devices, a variable bias supply to bias transistors or vacuum tubes, to offset AVC and AGC voltage in the alignment of TV and radio receivers.

### SPECIFICATIONS

OUTPUT VOLTAGE RANGE: 0-30 V DC, continuously variable. MAX. OUTPUT CURRENT CAPABILITY (CONTINUOUS): 300 mA. FUSE: 1/2 amp will blow in case of short circuit to protect unit. Pilot lamp will remain lit even when fuse is blown but voltmeter will read zero. RIPPLE: (120 Hz): 0.005% at full load. POWER REQUIREMENTS: 117 V, 60 Hz. SIZE (HWD): 5" X 4" X 5½". WEIGHT: 5 lbs.

\*Export Model Available.

Kit

Assembled

An Audio Test Lab in One Instrument!

# 902 im/harmonic distortion meter & ac vtvm



- High Quality Tuning Capacitor Provides Easy Frequency Setting
- Less Than 0.7 Volt Input Required

The EICO 902 is a unique audio test instrument combining IM and harmonic distortion meters and a sensitive AC VTVM and db meter in one compact package.

For harmonic distortion measurement, the EICO 902 incorporates a continuously-variable 20 - 20,000 Hz Wien Bridge rejection filter (in three ranges). For IM distortion measurement, the 902 features a 7 kHz oscillator for the high-frequency source. External low frequency sources up to 400 Hz and high frequency sources down to 2 kHz may be fed to the mixing bridge through panel jacks.

#### SPECIFICATIONS

IM DISTORTION: LF to HF ratios 4:1 and 1:1. TEST OUTPUT: 0-5 V. ACCURACY:  $\pm 5\%$  of full scale. RESIDUAL DISTORTION: 0.05%. HARMONIC DISTORTION: FREQUENCY RANGES: 20-200, 200-2000, 2000-20,000 Hz. INPUT Z: 500  $\Omega$ . MINIMUM INPUT: 0.7 V. DISTORTION RANGES: 0.3, 1, 3, 10, 30, 100%. ACCURACY:  $\pm 5\%$  of full scale. INTERNAL DISTORTION: 0.1%. AC VTVM: RANGES: .01, .03, 0.1, 0.3, 10, 30, 100, 300 volts RMS. Also, db scale of -20 to +2. INPUT Z: 2 Megohms. FREQUENCY RESPONSE:  $\pm 0$  db 10 Hz to 100 kHz. ACCURACY:  $\pm 4\%$  of full scale. POWER SUPPLY: V-R tube regulated. POWER REQUIREMENTS: 115 VAC, 60 Hz. SIZE (HWD):  $12\frac{1}{2}'' \times 8\frac{1}{2}'' \times 10\frac{1}{2}''$ . WEIGHT: 22 lbs. EXPORT MODEL: 115 and 230 VAC, 50-60 Hz. \*Export Model Available.

**Assembled**

Checks Flybacks and Yokes in Seconds!

# 944 flyback transformer & yoke tester



- Makes Tests In or Out of Set
- Positive Answers in Seconds

Now you can make one of the most difficult TV servicing jobs a breeze. Here's fast, positive testing of flybacks and yokes, in or out of the set at lowest cost!

The 944 Flyback Transformer and Yoke Tester gives you positive checks on flybacks and yokes in mere seconds. Operation is based on the extremely sensitive grid dip principle which shows up even one shorted turn. Exclusive separate calibration for air core and iron core flybacks and yokes assures accuracy. The large, easy-to-read  $4\frac{1}{2}''$  meter has three separate colored scales. Continuity of coils, speakers, switches can also be checked. SIZE (HWD):  $7'' \times 5'' \times 4''$ . WEIGHT: 5 lbs.

#### SPECIFICATIONS

OSCILLATOR FREQUENCY: Approx. 600 Hz Interrupted 60 times per second. TEST VOLTAGE: 100 rms V (short test), 60 rms V (continuity test). METER:  $4\frac{1}{2}''$  50  $\mu$ a 2000 ohm. Color-coded scale: Short test, continuity test, 0 - 100 linear reference. POWER REQUIREMENTS: 115 VAC, 50/60 Hz. SIZE (HWD):  $7'' \times 5'' \times 4''$ . WEIGHT: 5 lbs.

\*Export Model Available.

**Kit**

**Assembled**

## substitution boxes

### NEW! 1140 Resistor-Capacitor Substitution Box

Provides a means of rapidly substituting a wide range of EIA resistance or capacitance values in a circuit to determine the best value of a badly charred or otherwise illegible resistor or capacitor. You can easily select any resistance alone, any capacitance alone, or any combination of resistance and capacitance in series or parallel. Open and short circuit positions are provided.

#### SPECIFICATIONS

RESISTANCE RANGE: 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68 and 100 ohms. RATED ACCURACY:  $\pm 1-10\%$  at any setting. RATED POWER DISSIPATION: 1 watt at any setting. CONTINUOUS DUTY VOLTAGE RATING: 500 volts. CAPACITORS (MFD): .0001, .00022, .00047, .001, .0015, .0022, .0033, .0047, .0068, .01, .015, .022, .033, .047, .068, .1, .15, .22 VOLTAGE RATINGS: Capacitors .0001 mfd through .00047 mfd: 500 volts, capacitors .001 mfd through .1 mfd: 600 volts, capacitors .015 and .22 mfd: 400 volts: TERMINALS: Five-way, jacktop binding posts. SIZE (HWD):  $6\frac{1}{4}'' \times 5\frac{1}{4}'' \times 3\frac{3}{8}''$ . WEIGHT: 3 lbs. Supplied less leads.

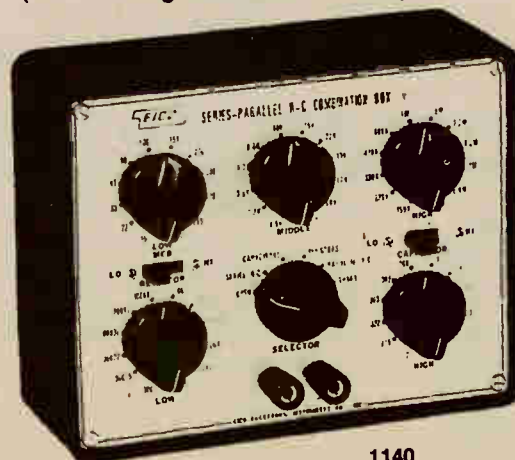
**Assembled**

### 1100 Resistor Substitution Box (NOT SHOWN)

Enables rapid substitution of wide range of EIA resistance values from 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68, 100 ohms. Uses standard 1-watt,  $\pm 1-10\%$  EIA resistors. Convenient 5-way, jack-top binding posts. SIZE (HWD):  $3\frac{3}{4}'' \times 6\frac{1}{2}'' \times 3\frac{1}{2}''$ . WEIGHT: 2 lbs. (Not shown).

**Assembled**

- New Compact Functional Design
- Increased Capacitance Ranges-NOW 24!
- 36 Resistors in standard values from 15 ohms to 10 meg ohms (1 watt power rating, tolerance  $\pm 10\%$ )
- 24 Capacitors from 100 pf to 0.68 uf (600 V rating tolerance  $\pm 10\%$ )

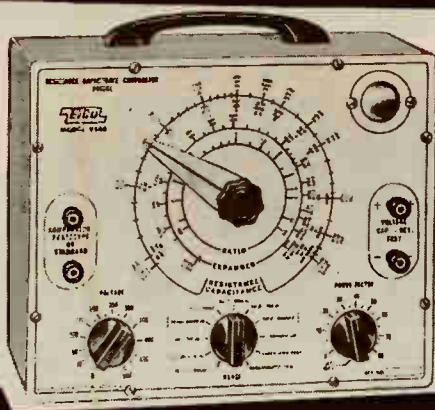


1140



A "Must" For Service Shops and Labs!

# 950 rc bridge & rcl comparator



- Comparator Range allows the Use of Complementary Components as Standards
- Continuously Variable Polarizing Leakage Test Voltage From 0-500 VDC

A versatile and truly useful service instrument for direct measurement of capacity or resistance over a wide range of values. For leakage testing of electrolytics, a continuously variable polarizing test voltage from 0 to 500 VDC is provided. Bridge balance and leakage are indicated by magic-eye tube. The bridge provides 4 capacitance ranges from 10  $\mu\mu\text{f}$  to 5000  $\mu\text{f}$ . A comparator range permits comparison measurement of capacitance, resistance or inductance against a standard. Power supply is transformer operated.

#### SPECIFICATIONS

CAPACITY: 4 ranges, 10  $\mu\mu\text{f}$  to 5000  $\mu\text{f}$ . RESISTANCE: 4 ranges, 0.5 ohms to 500 Megohms. COMPARATOR: 1 range, ratio from .05 to 20 (400 to 1). DC POLARIZING VOLTAGE: 0 to 500 volts DC (continuously variable)  $\pm 10\%$ . TUBE COMPLEMENT: 1-1629, 1-6X5. POWER REQUIREMENTS: 117 volts AC, 60 Hz. SIZE (HWD): 8" x 10" x 4". WEIGHT: 8 lbs. Optional test leads available. \*Export Model Available.

Kit                      Assembled

Constant Check of Frequency!

# 700 frequency counter



- Operates Automatically on Transmit
- 10 MHz Crystal Timebase
- Covers all 40 CB Channels

The EICO 700 offers the accurate ( $\pm 1$  PPM) digital readout experimenters always needed but could not afford for a hobby. Put this compact Frequency Counter to work in your car or, with an optional power supply, on your test bench. The 700 covers frequencies from 5 Hz to 27MHz on five, large, bright LED displays. Insertion losses of less than 70 mA enables you to leave this counter permanently in the circuit to give you constant readings of your transmit frequency to three decimal places. Slide switch selects kHz or MHz.

#### SPECIFICATIONS:

INPUT SENSITIVITY: 500 millivolts RMS-DC to 3 MHz, 500 millivolts RMS linearly increasing to 5 volts RMS-3 to 27 MHz. IMPEDANCE: 2,000 ohms at 27 MHz. FREQUENCY RANGE: DC to 27 MHz. DISPLAYS: Five 0.5" LEDs. OVERLOAD: Diode-protected input. ACCURACY:  $\pm 1$  one digit  $\pm 1$  time base stability. READOUT: kHz or MHz. TIME BASE-CRYSTAL FREQUENCY: 10 MHz  $\pm 10$  ppm accuracy,  $\pm 1$  ppm stability. POWER REQUIREMENTS: 8-14 V DC at 1.2 amps. BASE STATION: (117 V AC) Use regulated power supply (1.5 amp min.). SIZE (HWD): 2 3/8" x 5 5/16" x 6 1/8". WEIGHT: 1.6 lbs.

Kit                      Assembled

## decade boxes

### 1171 Decade Resistance Box

Ideal for determining exact resistor values. An instant performance comparison can be made of a circuit using a standard value resistor with the performance of the same circuit when using the ideal value resistor in the EICO 1171.

#### SPECIFICATIONS

RANGE: 0-99,999 ohms in 5 decades. One ohm steps. CURRENT RATINGS: 350 mA (0-9 ohms) to 2.5 mA (10  $\Omega$  to 100 k $\Omega$ ). SIZE (HWD): 3 1/2" x 12" x 3". WEIGHT: 3 lbs. Supplied less leads.

Assembled

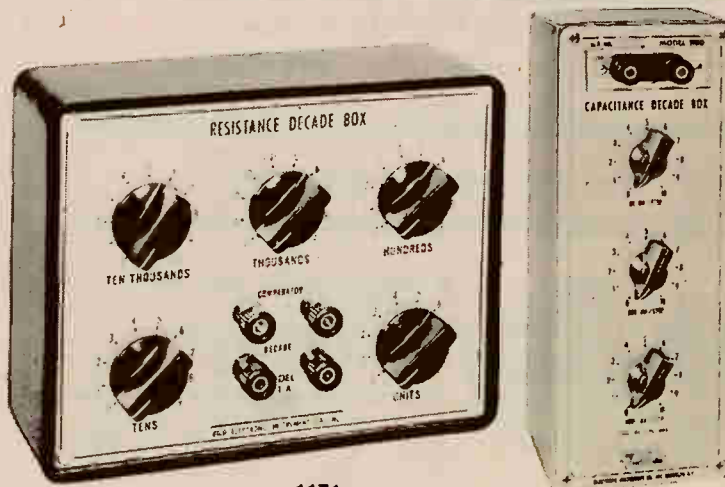
### 1180 Decade Capacitance Box

Useful for rapid experimental determination of exact capacitor values required in a circuit. Precision 1% capacitors, 100 pf to 0.111 mfd, are arranged in three decades in precise 100 pf steps. Each decade has eleven positions, 0 to 10 inclusive so that the decades overlap. The added capacity per step is 0.01 mfd for the largest decade, .001 mfd for the next decade, and .0001 mfd (100 pf) for the smallest decade.

#### SPECIFICATIONS

VOLTAGE RATING: 500 volts DC continuous. ACCURACY:  $\pm 1\%$ . SIZE (HWD): 9" x 3 1/2" x 3 1/2". WEIGHT: 3 lbs. Supplied less leads.

Assembled



1171

1180

Learn to Relax!

# BW-300 alpha brain-wave monitor



- Professional-Type Biofeedback System
- Five-Microvolt Sensitivity

Alpha brain wave signals, which fall within a narrow frequency range roughly centered about 10 Hz, seem to be closely related to mental states, such as meditation, tranquility, relaxation, heightened awareness, and elation. The Model BW-300 allows the user to detect and recognize the presence of these self-generated signals. Continued practice with the Model BW-300 is recognizing the onset and presence of Alpha signals generally facilitates achieving this state both in the amplitude of the monitored signals and their more consistent production, indicating a deeper state of relaxation.

After using the BW-300 you will learn how to relax fully and completely without the unit! The BW-300 is completely safe, simple-to-use, and battery operated. Simply attach the electrodes and put on the earphones. As you do, you will be able to hear your own Alpha brainwave generation in the form of a tone that varies in frequency with your own mental state. Unit comes complete with everything you need including stethoscopic earphone, electrodes headband and contact cream as well as complete instructions.

#### SPECIFICATIONS

AMPLIFIER: Sensitivity 5 microvolts. POWER: one 9-volt battery (not included). CONTROLS: Volume (with on-off switch), sensitivity. Plug-in jacks for earphone and electrode. SIZE (HWD): 1" X 3½" X 6". WEIGHT: ½ lb.

Kit Assembled

## 1040 filtered power supply



- Plays all 12-VDC Tape Decks, AM/FM Radios
- Serves As A Battery-Less 12 Volt DC Source

Plug the Model 1040 into any 120 VAC line and you can bring all your 12-volt DC mobile equipment into the house for added pleasure! Your CB radio, automotive tape deck, car stereo system, even HAM equipment. It can also serve as a charger for all 12-

volt batteries, works equally well with boats and cars. Input is 120 VAC, 50-60 Hz; output is 12 V DC at 4.0 amperes continuous, 5.0 ampere surge.

#### SPECIFICATIONS

FREQUENCY: 50/60 Hz. INPUT VOLTAGE: 120 V AC. OUTPUT VOLTAGE: 12 V DC at 4 amps. OUTPUT CURRENT: 4 amp continuous at rated voltage, 5 amp surge. SIZE (HWD): 4½" X 4½" X 6". WEIGHT: 2½ lbs.

Assembled

Hi-Powered Stereo Amp for your car!

# C-290 Stereo Amplifier Graphic Equalizer

### ULTRA-COMPACT SIZE!



- 5-Band Equalizer
- 40 Watts Total (20/Ch)
- Compact size (HWD)
- Fader Control
- Power-on Indicator

Convert your car stereo into a high-powered Hi-Fidelity system! It's just the thing for great sound in all vehicles — vans, trucks, and boats. Compact amplifier (20 watts RMS/channel) delivers plenty of power for high-fidelity sound and the equalizer gives you the tonal compensation needed to match your car's acoustics. Front/rear fader control balances 4-speaker systems. Boost or reduce the frequency response to suit your individual listening preference. Separate on/off pushbutton with "power on" indicator. Mounting bracket for in/under dash installation.

- Installs in Minutes
- Great for Keeping "Business by Phone" Records

## FA-40 "CALL MONITOR"

### Telephone Recording Control



Now you can keep an accurate record of your telephone conversations.\* The "Call Monitor" provides a convenient permanent means of automatically recording both incoming and outgoing calls. A cassette recorder starts when the phone (or its extension) is lifted and stops automatically as soon as the call is completed. An "On/Off" switch permits playback without unhooking the FA-40 from your phone line or recorder.

\*Federal law requires that only one party in the conversation be informed that the call is being monitored.

Assembled



Hi Performance in-dash car stereo!

# AC-400 AM/FM Stereo Auto-Stop Cassette



- Short Chassis
- Adjustable Shafts
- 7 Watts Per Channel
- Local/Dist. Switch
- Locking Fast Forward

Engineered for factory-installed looks and performance at a price to please any car stereo buff. Complete with AM-FM band selector switch, Locking Fast-Forward-Eject control switch, slide load cassette, tape run and stop LED indicator. Other deluxe features include FM local/distant switch, stereo indicator light, illuminated dial scale and stereo balance control. Adjustable shafts for installation in most cars, vans and trucks supplied complete with trim plate & front piece for a professional looking fit. 10 watts RMS total output power. 12V DC, negative ground.

Easy-to-install "Keyless" Auto Burglar Alarm

# ASA-310 electronic siren auto alarm



- No Key Switch to Mount in Fender!
- Digital IC Logic Design • Automatic Timer/Cut-Off
- Hidden Time-Delay Switch Inside Car! • Auto Re-set

There are no fender holes to drill. A hidden switch controls the time-delay circuit so you have 15 seconds after setting it to leave the car, 15 seconds to locate the switch and turn it off after re-entry. Siren gives off a piercing "hi-lo" sound that will surely attract attention. Solid state automatic cut-off turns siren off after five minutes to comply with most local regulations. Operates on the principle of "voltage detection" so that when a door is opened causing the interior light to go on, the system senses a voltage drain and activates alarm. Operates with all 12-volt, negative ground systems. SIZE (HWD): 4" x 8" x 3".

# ASA-301 electronic siren auto alarm



- Voltage Sensor Eliminates Wiring of Doors
- Emergency Vehicle "Hi'Lo" Sound
- Digital IC Logic Design

Features penetrating "Hi'Lo" emergency sound. "Voltage Sensor" reduces installation time from hours to only minutes. One wire connected to any hot lead is all that is required after installing key switch and mounting siren.

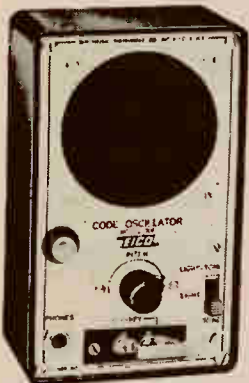
# PCE-10 Photo-Electric Relay System



- Signal System Announces Customers
- Rings Bells, Buzzers
- Range Up To 50-Ft. Between Units

This all solid-state System has an effective range of up to 50 feet, and features an adjustable sensitivity control so ambient light changes will not affect the unit. Can be set for continuous duty so alarm remains on even after beam is restored, or for intermittent duty so that it is self-resetting. Can be used in security systems, as an annunciator, or for counting. Comes with complete installation instructions. Operates from 117 volt AC lines. SIZE (EACH, HWD): 3 1/2" x 4" x 3". WEIGHT: 6 lbs.

Assembled



# EICO 706 Code Practice Oscillator

- Includes Battery, Key and Earphone.

Invaluable aid for learning Morse Code with outstanding conveniences not found in other units. Unusually efficient speaker provides a clean, loud signal. Includes pitch control to obtain subjectively pleasing tone, phone jack for private use, and choice of tone, flashing light, or both together. Employs battery-operated transistor oscillator to provide many years of trouble-free service.

### SPECIFICATIONS

TONE FREQUENCY RANGE: Approx. 500 to 2000 cps continuously variable. CONTROLS: PITCH, TONE, and/or LIGHT. CURRENT DRAIN (TONE): 40 ma at 3VDC. CURRENT DRAIN (LIGHT): 300 ma at 3 VDC. CURRENT DRAIN (TONE AND LIGHT): 340 ma at 3VDC. TERMINALS: Key, Phones. CASE: High-impact bakelite. PANEL: Satin finish, deep-etched aluminum. SIZE (HWD): " x 3 5/8" x 2". WEIGHT: 2 lbs.

Assembled

**EICOCRAFT®**

# Project Kits

- Educational, useful, fun to build
- Pre-drilled printed circuit boards
- Reliable solid state circuitry
- Easy step-by-step-instructions

Exclusive "Panel Mounts" gives your project a professional appearance

**EC-100 ELECTRONIC SIREN**

Excellent for all attention-getting and signalling purposes such as alarms for burglary, fire, automobile, bicycle, personal attack, etc. Sound effects for model railroads, slot car racers, tape recordings, etc. Includes Speaker. Supplied less 9 volt battery.

**EC-600 LIGHT FLASHER**

This battery-operated, 2-transistor multivibrator circuit makes two lights flash alternately. Great attention getter or warning light. Makes an excellent warning light for cars or boats, and, if you're a hiker, put the lamps on the back of your knapsack! Use 6 volt lantern battery not supplied.

**EC-700 ELECTRONIC "MYSTIFIER"**

Fascinating battery-operated relaxation oscillator circuit of 6 blinking neon lights. A never ending entertainment "conversation piece"—for desk, den, mantle, it makes an excellent gift "for the one who has everything." Supplied less 9 volt battery.

**EC-900 AC POWER SUPPLY**

Converts house-current AC volts (110-125 volts AC) to 6 to 9 volts DC. Reliable, transformer-operated, transistors power supply. Full-wave bridge rectifier uses silicon diodes and high capacity filtering for 6 to 9 volts DC output. Useful to power most EICOCRAFT kits.

**EC-1000 CODE OSCILLATOR**

Can be used to monitor your code - just connect it in parallel to your existing transmitter key. Includes Speaker and Key (pushbutton). Supplied less 9 volt battery.

**EC-2900 POLICE/FIRE CONVERTER (HI-BAND)**

Now your AM radio (in car or home) can be used to tune in the entire, exciting 152-174 MHz band VHF communications bands used by police and fire departments that transmit AM only. Supplied less 9 volt battery.

**EC-1300 ELECTRONIC VOX**

This transistorized, audio-activated relay has an adjustable variable time delay and allows you to control any electrical circuit with the sound of your voice. Makes a great control for tape recorders; can serve as a "commercial killer" for TV too.

**EC-1400 FM RADIO**

Receives the FM broadcast band from 88 MHz through 108 MHz. It may be utilized as a private listening personal radio (with the earphone supplied); or as an FM tuner when coupled to an audio amplifier such as EICOCRAFT EC-300. Supplied less 9 volt battery.

**EC-1500 AM RADIO**

Receives the AM broadcast band from 500 kHz through 1600 kHz. It may be utilized as a private-listening personal radio (with the earphone supplied), or as an AM tuner when coupled with an audio amplifier such as EICOCRAFT EC-300. Supplied less 9 volt battery.

**EC-1900 TREASURE FINDER**

This battery-operated metal locator can pay for itself! Locates both ferrous (iron, steel, etc.) and non-ferrous (gold, silver, platinum, copper) metals. Boasts two RF oscillators and search loop; has distinctive audio indicator. Supplied less 9 volt battery.

**EC-2300 AUDIO PREAMP**

Solid state preamplifier accepts any of five inputs and allows them to be connected through an emitter follower to the amplifier or public address unit. If you're converting your phono from ceramic to magnetic cartridge, this is a must!

**EC-2700 POLICE/FIRE CONVERTER (LO-BAND)**

Now your AM radio (in car or home) can be used to tune in the entire, exciting 30-50 MHz band VHF communications bands used by police and fire departments that transmit on AM only. Supplied less 9 volt battery.

**EC-2800 AIRCRAFT CONVERTER**

Tune the 108-136 MHz band and hear two-way broadcasts from local aircraft on your broadcast band receiver. Supplied less 9 volt battery.

**EC-5600 ELECTRONIC LOCK**

Forget about your "High-security" locks! This one has 'em all beat. You must press three of the five buttons in proper sequence within a 10 second interval for this lock to work. (125 to 1 chance of opening). Digital (MOS) circuitry in this combination lock requires a 6 volt battery.

**EC-5700 UNIVERSAL POWER AMPLIFIER**

This 2-watt general purpose amplifier accepts any input source such as mike, phone, or tape recorder; works with 8-ohm speaker. Makes an excellent hailing horn or P.A. system.

**EC-5000 SCA ADAPTER**

This adapter permits you to listen to the official FCC licensed background music that is uninterrupted and commercial-free. Use with any FM receiver or FM radio and take advantage of music the way banks and restaurants do!

*\*This adaptor is intended for personal use only.*

**EC-5100 ESP TESTER**

How intuitive are you? This Tester will help you find out! The four lamps light in random fashion and all you have to do is guess which is next. Requires a six-volt battery.

**EC-5200 "DECISION MAKER"**

Never flip a coin again! Let the EICO EC-5200 do it for you. When a decision has to be made only one of the two LED's remains lit, indicating either a "yes" or a "no" answer. It's lots of fun! Requires a six-volt battery.

**EC-5400 STEREO POWER AMPLIFIER**

You get two watts per channel of continuous power with inputs for microphone, phono, tape recorder, etc. Drives 8-ohm speaker systems. For even more flexibility, use with EC-5500, below.

**EC-5500 STEREO PREAMP**

Permits you to drive any stereo amplifier with low-level inputs, such as magnetic cartridge, dynamic mike, etc. Provides NAB and RIAA equalization, 90 db channel separation. Requires 12 volt battery.

## EC-4300 3-CHANNEL SOUND/LITE TRANSLATOR KIT



- Frequency Controlled
- 3 Channels
- 400 Watts Per Channel
- Separate Color Controls

Heighten your pleasure in music listening with an audio light show. The EICO Sound to Light Control lets you modulate 3 independent colored lamp circuits with the intensity of your music. Just plug in your favorite colored flood or spotlights and connect to the speaker leads of your music system. Features 3 frequency sensitive channels with individual controls for low, mid and high ranges. 400 Watts per channel. Size: (HWD) 2" x 4" x 6". Weight: ½ lb. Kit and wired.

20

## 3431 4-CHANNEL AUDIO COLOR ORGAN



- Music Becomes Bursts of Light
- 4 Channels, Frequency-Controlled

The EICO Color Organ adds exciting sights to your sound system. Just connect the 3431 to the speaker leads of any sound source. Without affecting the sound, the audio signal is separated into four frequency bands, each with brilliantly colored light patterns, red for bass, blue for low-midrange, green for upper-midrange and amber for treble. The lights pulsate in time to the music creating dazzling patterns of color. Line isolation provides source protection. Walnut grained cabinet. Size (HWD) 18" x 10" x 7" Weight: 8 lbs.

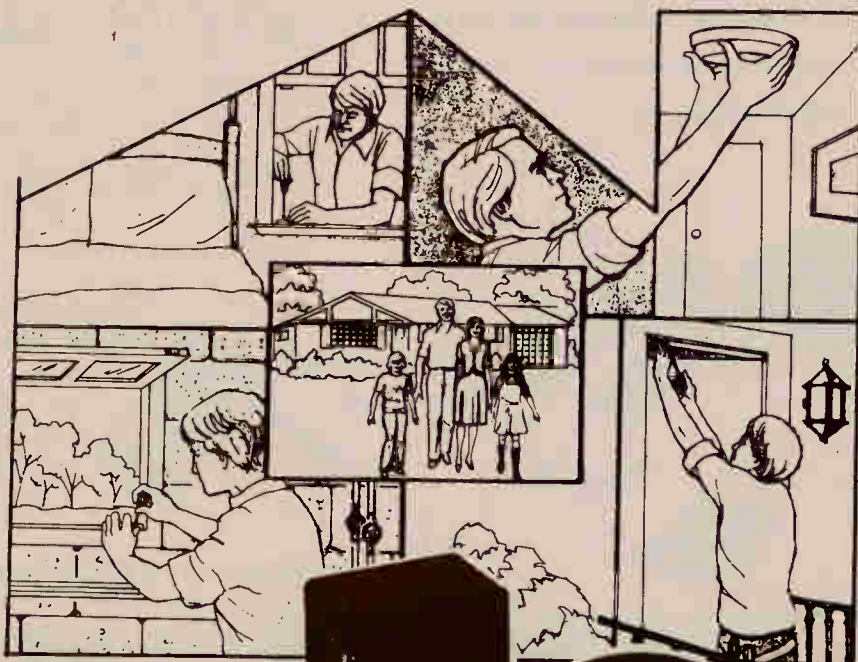
**Assembled**



# A weekend of work protects your family for a lifetime!

In one weekend with a pair of pliers and a screwdriver, you can give your family and home a lifetime of protection from intruders and fire.

At the same time you'll save enough money to cover more than the cost of the system.

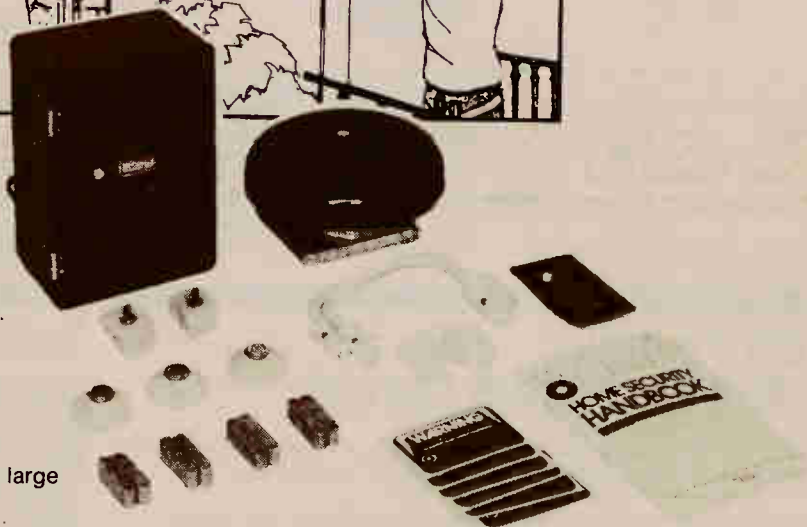


## Here's what the EICO SS-500 offers:

- 3-way protection from burglary/holdups/fire at about one-third the cost of a professionally installed system.
- Complete, ready to install. Step-by-step instruction book makes you an expert—no soldering, no complications.
- Tailor your system to protect a small apartment, a large house or business.
- Top-rated by electronics magazines.

• Made by a name known for quality electronic products—EICO.

**EICO**<sup>®</sup>



# EICO 'DO-IT-YOURSELF' HOME SECURITY PROTECTION SYSTEM

## The Professional Home Protection everyone can Install and Afford.

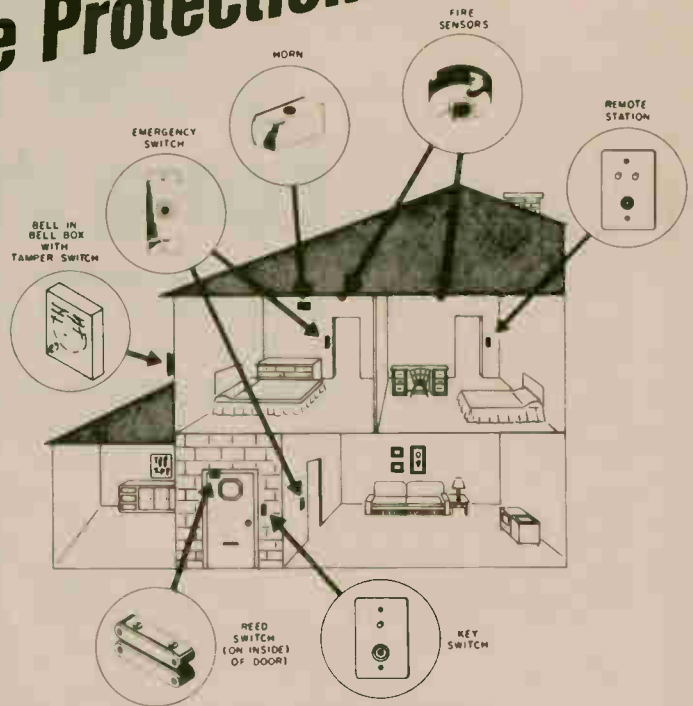
### EICO SS-500 BURGLAR/HOLD-UP/FIRE ALARM SYSTEM

- Systems "HEART" is the EICO FC-100 Security Control Center.
- Additional Sensors, Alarms, Accessories may be added *any time* to meet future needs.
- AC Operated-Automatic Transfer to Battery Operation in the event of Power failure
- "Do-It-Yourself" Installers Handbook included.

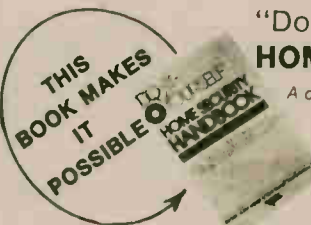


The EICO SS-500 Security System offers you the kind of professional protection you have been looking for, at a price you can afford. The System has been designed on the EICO exclusive "Expandability Concept" that enables you to "add-on" protection to meet your own special requirements. Virtually any professional security sensing device can be easily added to the EICO SS-500.

The system is supplied with the following: FC-100 Security Control Center; SA-25 8" Alarm Bell; A-45 Entrance Key-Switch with "system-on" signal light; A-65 remote station control with signal lights; SD-20 Fire Sensors; SD-10 Door/Window Contact Switches; SD-50 Tamper Switches; SD-40 Door Cords; A-35 Emergency Buttons; A-95 Installers Handbook; A-105 6 Warning Decals; A-135 (2) Alarm Circuit Hook-Up Wire and A-137 Alarm Bell Hook-Up Wire.



TYPICAL ALARM INSTALLATION



### "Do-it Yourself" HOME SECURITY HANDBOOK

A comprehensive 40-page Homeowners Handbook which includes a wealth of information on professional home security as well as comprehensive installation procedures in clear non-technical language.

A-95 Handbook

### Acclaimed by Editors and Consumers!

"The EICO SS-500 Home Protection system works as well as, if not better, than many so-called "professional" or industrial systems—at a lot less cost. Fact is, the system has more features than much "professional" equipment. And it certainly works a lot better than many do-it-yourself systems presently on the market that are supposedly intended for the average home owner."

(Test Report Summary E/E Magazine)

"Wiring the Eico system is a breeze"..... (Electronics Illustrated)

"We found that installing the security system is easy, and the only tools we needed were a screwdriver and a knife. We picked an arrangement from the manual, suitable to our needs, and went to work. In a matter of hours, the job was completed." (Popular Electronics)

### EICO FC-100 SECURITY CONTROL CENTER

- Start your custom Burglar/Hold-up/Fire Alarm System with the FC-100.
- Add on Sensors, Alarms and Accessories to suit your own needs.
- "Do-it-Yourself" Installers Handbook included.
- AC Operated-Automatic Transfer to Battery Operation in the event of Power failure
- No technical knowledge needed-No soldering.
- Ideal for Apartment, Home and certain Commercial Installations.
- 100% Professional in Design, Reliability, Performance.

The first professional Alarm Control Center designed for easy "Do-it-Yourself" installation. The FC-100 is the "heart" of the EICO home protection system.

It contains all circuits required for monitoring the burglar and fire detectors and sounding the alarm. It includes two indicator lights; a white "circuit test" light which automatically checks the status of the burglar alarm sensors in the system, and a red "alarm on" light, which indicates that the system has been activated. A built-in 117 VAC power supply supplies 6 volts DC for operating the system. In the event of power failure, the FC-100 automatically switches over to battery operation. The power supply also trickle charges the lantern battery when it is not in use. A meter and battery test switch allows you to check the condition of the battery. Each circuit in the FC-100 has its own set of screw terminals that allow easy installation.

Includes A-95 Security Handbook and A-105 warning decals.





# TO SUIT YOUR NEEDS.

## Contact Switches For Doors, Windows, Etc.

**SD-10 DOOR/WINDOW MAGNETIC CONTACT SWITCHES (4 pairs)** C.C. Basic burglar/intruder sensors for doors and windows. Two piece units consist of a reed switch and a bar magnet.

**SD-16 VIBRATION CONTACT C. C.** Protect walls, ceilings, large glass windows, skylights and virtually any area vulnerable to forced entry. Adjustable sensitivity.

## Protect Against Fire

**SD-20 HEAT/FIRE SENSORS (3)** O. C. When a temperature of 135° F (57° C) is reached they will set off the alarm. Can be used anywhere except in normally warmer areas such as attics and furnace rooms. For those locations use Model SD-24.

**SD-24 FURNACE/ATTIC HEAT SENSORS (2)** O. C. Will cause the fire alarm to sound when the temperature in the area in which it is located reaches 190° F (88° C).

## Bells, Sirens, Signaling Devices

**SA-15 INDOOR KLAXON HORN ALARM 6-12 V DC** Twin horns mounted inside a decorator styled housing give a loud ear-piercing sound. Ideal as an indoor fire warning alarm.

**SA-25 INDOOR/OUTDOOR 8" BELL 6-12 V DC** Extra-loud alarm bell can be used for both the burglar and fire alarm circuits, and can be mounted indoors or outdoors. WEIGHT: 2 lbs.

**SA-27 STEEL BELL BOX** Constructed of heavy gauge steel. Includes safety plate with mounting holes for SA-25 8" alarm bell and SD-50 tamper switches (not supplied). Hammertone rust retardant finish. SIZE (HWD): 12" X 9" X 4". WEIGHT: 10 lbs.

**EICO A-155 AUTOMATIC TELEPHONE DIALER** Summons help automatically in case of

**SD-18 "DOOR JAMB" CONTACT SWITCHES C.C. (2)** Multipurpose, bullet nose switch easily concealed directly in door jamb. Ideal for protecting doors, windows, etc.

**A-35 EMERGENCY BUTTONS (2)** Also known as a "panic button," allows you to sound the alarm from any location. (SPST)

**SD-50 TAMPER SWITCHES (2)** Valuable for protecting the alarm bell and the Security Control Center, preventing an intruder from deactivating the alarm system.

## Switch Mats

**A-145 "BY-PASS" SWITCHES (2)** Versatile switch allows you to "by-pass" protection on a particular window or door. You can leave a window open for ventilation or a door open for constant traffic while the rest of your home is protected.

**SD-54 FLOOR SWITCH MAT 30" X 30" O. C.** Ideal for providing security for hard-to-protect passageways such as those passageways such as those located at sliding glass doors, stairways and hallways. Ultra-thin hermetically sealed vinyl construction.

**Fire or Theft. 2 Channel Capacity up to 4 messages per channel. AC operation with DC standby power. WEIGHT: 18 lbs. assembled.**

**A-185 BELL TIME/AUTOMATIC CUT-OFF** The A-185 will automatically shut off the alarm bell or horn after about ten minutes. This accessory is required in many localities and permits the alarm to do its job without overly disturbing neighbors. **assembled**

**SA-17 DUAL CHANNEL ELECTRONIC SIREN** Ideal for any 6-12 volt system as either a replacement or an adjunct to the alarm bell. Dual channel provides a steady tone which can serve as a fire alert, "Hi-Lo" warbler for intrusion. A real attention-getter! **assembled**

## Protect Your Windows, Glass Doors, Etc.

**SD-30 WINDOW FOIL ADHESIVE BLOCKS (8)** Self-sticking window foil connectors are used to connect window foil to protection circuit wiring.

**SD-32 WINDOW PROTECTIVE FOIL** Self-sticking metal foil used to protect glass areas. Supplied in handy 200' roll.

**A-125 FOIL PROTECTOR/ADHESIVE-2 OZ. APPLICATION BOTTLE** Dual purpose clear ACRYLC formulation. Provides durable protective coating on foil.

## Entrance Key Switches, Remote Stations

**A-45 MOMENTARY ENTRANCE KEY SWITCH WITH SIGNAL LIGHT** Enables you to get into your own home without setting off the alarm. A red light with mounting plate is associated with the key switch to assure you that your system is activated, and to warn intruders that the house is protected.

**A-65 REMOTE STATION CONTROL WITH**

**INDICATOR LIGHTS** Consists of a wall mounting plate, momentary switch, white "CIRCUIT TEST" light, and red "ALARM ON" light.

**SD-40 DOOR CORDS 12", TWO WIRE (2)** To be used whenever movement of one part of the circuit is required, e.g. doors and windows.

## Emergency Dialer

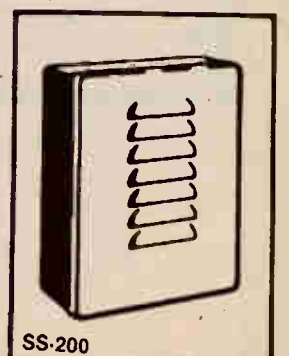
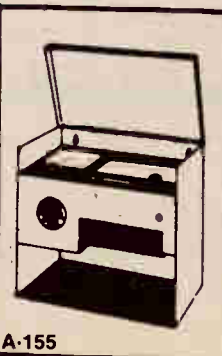
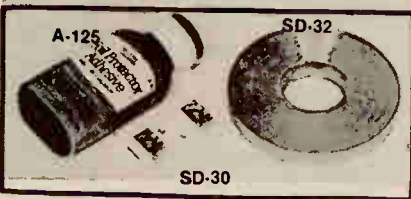
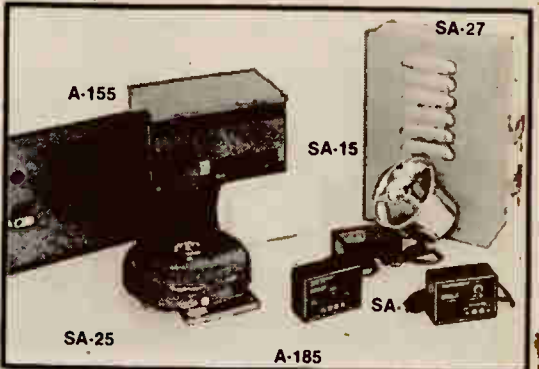
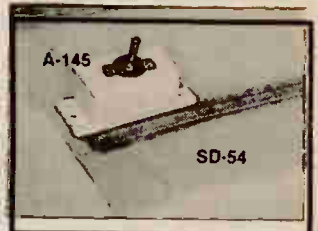
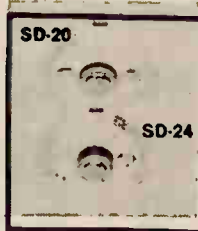
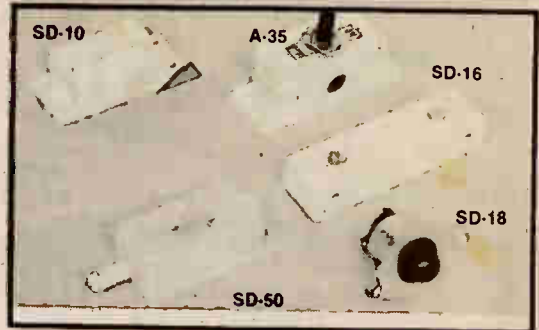
**EICO A-155 AUTOMATIC TELEPHONE DIALER** Summons help automatically in case of Fire or Theft.

2 channels, one for fire and the other for police messages (or any 2 numbers you desire). These 2 separate channel inputs are simply connected to the burglar and fire terminals of the EICO FC-100 Security Control Center. 2 Channel Capacity up to 4 messages per channel on supplied cartridge. AC operation DC standby power. Built-in Test Speaker. "Line Release" prevents incoming calls from interfering with emergency dial-out. "Automatic Stop" resets itself for emergency readiness. "Line Seizure" prevents interruption of emergency dial-out by the lifting of an extension phone. "Time Delay" (15-30 seconds) are programmed into the emergency message.

## Time Delay System

**EICO SS-200 SOLID STATE BURGLAR/FIRE ALARM SYSTEM**

The ideal self-contained solid state alarm system for apartments, stores, professional offices, etc. as no holes need be drilled for entrance door shunt locks. The alarm system is activated after you leave the premises. A 20 second "Time Delay" allows you sufficient time to shut the alarm off upon entering. Additional Intrusion detectors ("closed circuit") and Fire Sensors ("open circuit") may be added at any time to meet your own special requirements. **EICO SS-200 System Includes:** FC-90 Security Control Center, 3 window contacts (C.C.), 1 exit door contact (O.C.), interior ON/OFF switch, panic/battery test button, 4 warning decals, 100' hook-up wire, security handbook, operates on standard 12 volt lantern battery (not supplied).



ADD ACCESSORIES

EICO ELECTRONIC INSTRUMENT CO., INC.  
108 New South Road, Hicksville, N.Y. 11802

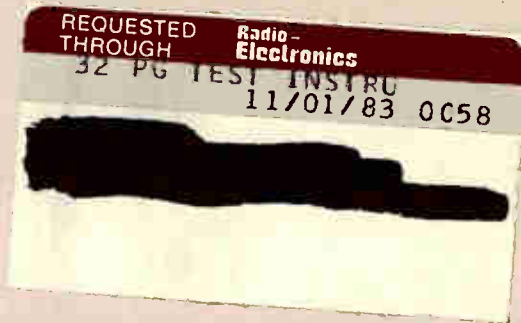
If not deliverable, do not return.



## CATALOG

All prices and specifications subject to change without notice. Prices slightly higher in the West and Canada.

Printed in U.S.A.



Bulk Rate  
U.S. Postage  
PAID  
Long Island City, N.Y.  
Permit No. 147

## Our 40 years of leadership

For over 40 years, EICO has been designing and manufacturing electronic products. It is now the world's largest producer of electronic kits and factory-wired equipment marketed exclusively through dealers and distributors throughout the world. There's a wide range of versatile, professional EICO products to satisfy nearly every electronics interest, each designed to provide the most pleasure and performance for the money.

The fact that more than 3 million EICO products are in use through the world attests to their quality and performance. EICO products are available for inspection and immediate over-the-counter delivery at more than 1500 EICO dealers and distributors.

*Laboratory Precision at  
Lowest Cost Since 1945*

# EICO OFFERS THE BEST TEST INSTRUMENT VALUES FOR YOUR BUDGET.

### Superb "No Compromise" Engineering

EICO's engineering leadership, backed by 36 years of development experience, gives you instruments with truly outstanding capabilities, operating convenience, and freedom from performance difficulties. There are many fine points in EICO circuit design, not revealed in specifications, that make EICO not just good value but excellent instruments by any standards.

### Beginner-Tested Assembly Manuals

The instruction books have been written to carry you along, step-by-step, with clear, non-technical instructions and simple, graphic diagrams. Every EICO instruction book is fully tested, both by electronics experts and by beginners. Further, you work with the finest parts, subjected to the most stringent quality control in the industry.

### Local Service and Products

See EICO at your local dealer. There are over 1500 authorized dealers coast-to-coast, who stock the complete EICO line. You can enjoy instant, off-the-shelf availability for your choice of EICO kits or fully-wired instruments. You get

actual demonstrations of the products, fast, personal attention, and experienced technical guidance. For your added convenience, EICO has over 200 local service stations should you ever require service or replacement parts.

### At Your Service—Worldwide!

Wherever you are in the free world, EICO equipment and service are always available nearby. For the name of your nearest appropriate dealer, write: EICO Electronic Instrument Co., Inc. 108 New South Road Hicksville, N.Y. 11801 Phone: (516) 681-9300 Cable "EICOKITS," Telex: 127412

### CANADA

EICO Canada Ltd. Post Office Box 268  
Richmond Hill, Ontario, Canada L4C 4Y2  
Phone: (416) 773-4331

### EXPORT DIVISION

Roburn Agencies, Inc., 111 Eighth Avenue  
New York, N.Y. 10011 (212) 989-9539

### MILITARY PERSONNEL OVERSEAS

Duty-free EICO equipment is available at U.S. catalog prices (plus nominal surcharge for freight and handling). Most equipment is available for 115/230 VAC 50-60 Hz operation.

Distributed by