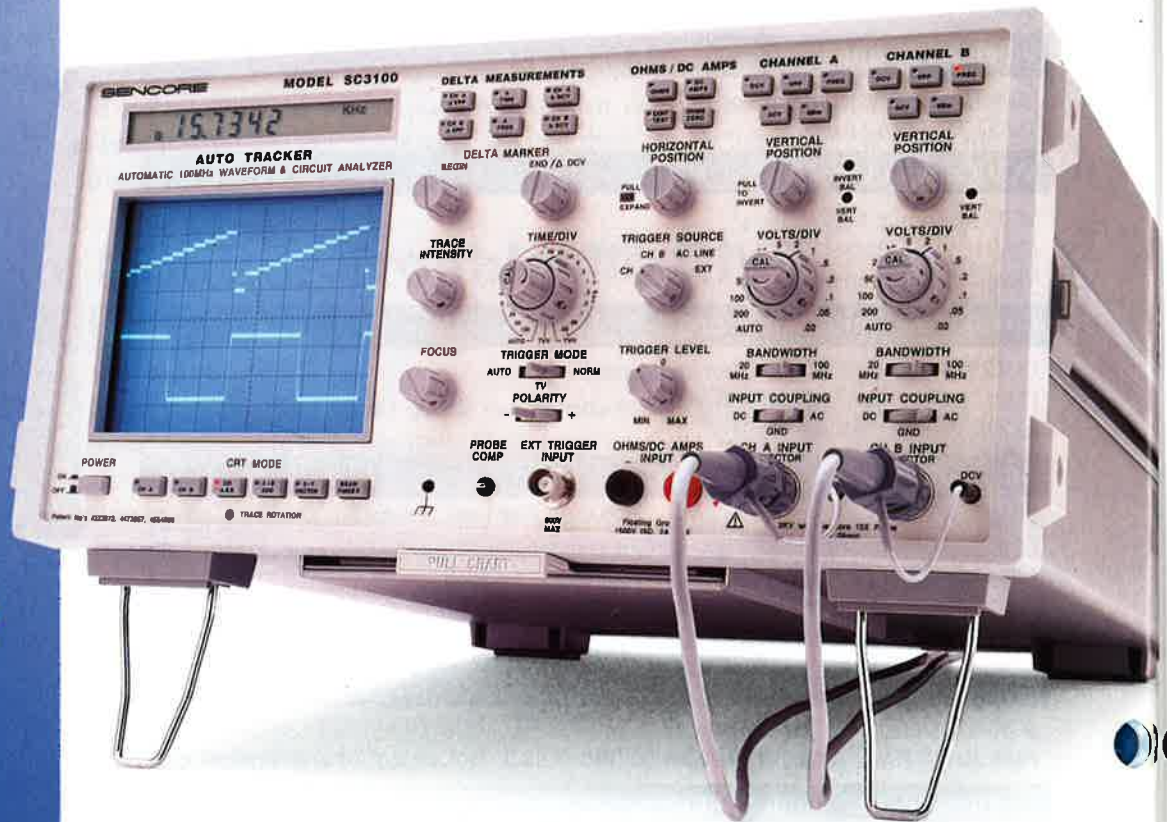


SC3100 "AUTO TRACKER"™ Automatic 100 MHz Waveform & Circuit Analyzer Patented

Now Touch
And Test
Any Circuit
Test Point
And Make
Autoranged
Error Free
Measurements
In A Fraction
Of The Time!



IEEE488
Bus-Compatible

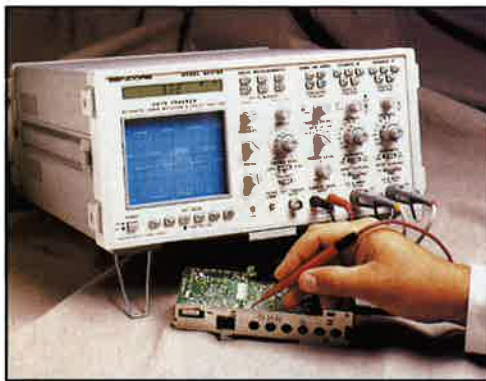
RS232
Compatible

- A complete waveform and circuit analyzing system in one instrument
- Auto-Tracking™ digital readout of waveform voltage and frequency with one probe connection
- Integrated measurements of all circuit parameters provides fast troubleshooting answers
- Full performance, 100 MHz dual trace oscilloscope
- Exclusive autoranged timebase and vertical attenuators eliminate wasted time
- Digital delta measurements to analyze every portion of any waveform
- All functions microprocessor integrated for ease-of-use

Waveform
Analyzing

1-800-SENCORE (736-2673)

A complete waveform and circuit analyzing system. Measure circuit parameters and view all of the waveforms shown in any service literature with one complete unit – the SC3100 “AUTO TRACKER”. Now you can measure DC voltage, peak-to-peak voltage, frequency, DC current, ohms, continuity – and analyze waveforms in one complete, easy-to-use instrument. The SC3100 “AUTO TRACKER” is guaranteed to increase your analyzing capabilities with the push of a button. Just start tracing signals from point to point, and the patented SC3100 “AUTO TRACKER” will be the one instrument you can’t do without.



Full performance, 100 MHz, dual trace oscilloscope. View any waveform quickly, easily, and more accurately with the “AUTO TRACKER.” No signal is too large or too small with the “AUTO TRACKER’s” exclusive 2 mV to 2 kV input range. The SC3100’s “fiddle free” trigger circuits provide rock solid viewing of any signal so you don’t have to spend time adjusting controls trying to lock onto a waveform. You simply won’t find another instrument that locks onto signals as easily as the “AUTO TRACKER”.

Exclusive autoranged timebase and vertical attenuators. Simply set the “AUTO TRACKER’s” timebase and channel attenuators to “AUTO” to view

waveforms without resetting the controls. As you move your probe through the circuit, the “AUTO TRACKER” automatically adjusts the timebase and attenuators to display the waveform on the CRT. This hands-free analyzing allows you to concentrate on the circuit – not on your scope. The SC3100 “AUTO TRACKER” gives you the power to take control of your troubleshooting.

Auto-Tracking™ digital readout of waveform voltage and frequency. You simply connect one probe to the circuit and push a button to read DC volts, peak-to-peak volts, frequency, RMS AC voltage, or dBm level. The “AUTO TRACKER” measures the key parameters of any waveform with one probe connection, at the push of a button, for fast and accurate troubleshooting.

The SC3100 “AUTO TRACKER” lets you keep your mind on the circuit, not on making the measurement. We’ve added speed, accuracy, and pushbutton ease of digital readings to every waveform voltage and frequency measurement. Just connect one probe, push one button, and read the results. It’s fast, easy, accurate, and eliminates graticule counting once and for all.

Integrated measurements of all circuit parameters. The SC3100 “AUTO TRACKER” also measures ohms and current providing you with complete troubleshooting answers. The SC3100 is the only instrument you need to make all the measurements shown in service literature. Resistance tests up to 100 megohms, an audible continuity test, and two amp DC current measuring capabilities make the “AUTO TRACKER” the complete answer for all of your circuit measurement needs.

Digital Delta measurements to analyze any portion of any waveform. Highlight any part of a waveform with the “AUTO TRACKER’s” exclusive Delta Bar, and analyze the amplitude, absolute DC, time, or frequency. The SC3100 “AUTO TRACKER” totally eliminates confusing graticule counting or cursor settings resulting in reduced errors and increased troubleshooting confidence. You’ll never need to count graticules again.

All functions microprocessor integrated for ease of use. The “AUTO TRACKER’s” analyzing speed will increase your servicing capability. All measurements are based on digital circuits, not the analog CRT, for fast, easy, and accurate readings. There are no hidden menus, no multiple function buttons, no complicated setups, and no confusing on-screen displays. Just push a button and read the results on the SC3100’s LCD display.

Condensed Specifications

Patents: #4,323,972, #4,473,857, #4,564,805

Vertical Amplifiers – DISPLAY MODES: Channel A, inverted channel A (-A), channel B, dual trace (A&B), algebraic sum (A+B) or difference (B-A), vector (X-Y). CALIBRATION ACCURACY: $\pm 3\%$ at 1 kHz. FREQUENCY RESPONSE (100 MHz): AC coupled: ± 3 dB of 1 kHz level from 10 Hz to 100 MHz, usable to 150 MHz. SENSITIVITY: 20 mV/div. to 200 V/div. with supplied 39G292 10X probe; 2 mV/div. to 20 V/div. with (optional) DP270 Direct Probe. MAXIMUM INPUT PROTECTION: Supplied 39G292 10X Probe: 2500 volts breakdown (DC + Peak AC).

Horizontal Sweep – SWEEP RATES: 100 milliseconds/division to 20 nanosecond/division. Autorange automatically selects sweep rate to show approximately 2-5 cycles of waveform. ACCURACY: $\pm 3\%$.

Trigger Circuits – TRIGGER SOURCE: CH A, CH B, AC power line, or external. TRIGGER MODES: NORM, AUTO, TV.

Auto-Tracking™ Digital Tests – DC Volts: DCV FUNCTION: Provides direct reading of DC voltage on selected channel. ACCURACY: $\pm 0.5\%$ ± 2 digits.

Peak-to-Peak Volts – VPP FUNCTION: Provides direct reading of peak-to-peak voltage on selected channel with either X10 or direct probes. ACCURACY: $\pm 2\%$ ± 4 counts. FREQUENCY RESPONSE: ± 0.5 dB from 20 Hz to 30 MHz, ≤ -3 dB at 100 MHz.

AC Volts – ACV FUNCTION: Calculates RMS sinewave value from PPV measurement. dBm FUNCTION: Calculates dBm measurement from PPV sinewave measurement, referencing 1 mW across 600 Ω (0 dBm = 7746 volts RMS).

Frequency – Automatically displays the frequency of the signal on selected channel. RANGES: 10.00 Hz to 150 MHz. ACCURACY: .001% ± 1 digit.

Delta Peak-to-Peak – Measures amplitude of intensified area on selected channel.

Delta Time – Measures time of intensified waveform portion.

I/Delta Time – Converts Delta Time reading to equivalent frequency.

Delta DC Volts – FUNCTION: Measures DC voltage level of marked waveform point in respect to ground using the PPV and DCV functions. MARKER: Fully adjustable over entire range of waveform.

Digital Meter Tests – Ohms – FUNCTION: Provides in- or out-of-circuit ohms. RANGES: 0.00 to 100 M Ω . ACCURACY: 0.2% ± 2 digits.

Continuity Test – Provides audible tone of continuity. RANGE: 0 to 199 Ω . Audible tone turns on if resistance is $< 10 \Omega$ and turns off if resistance is $> 15 \Omega$, $\pm 2 \Omega$.

DC Current – Provides measurement of DC current. RANGES: .001 to 1.99 amp ACCURACY: 0.3% ± 2 digits.

General – SIZE: 7.25" x 13.75" x 15" HWD (18.4 x 34.9 x 38.1 cm). WEIGHT: 25 lbs (9.33 kg). POWER: 105 to 125 VAC, 50/60 Hz.

