

SUPPLEMENT NO. 3 TO 1974 CATALOG

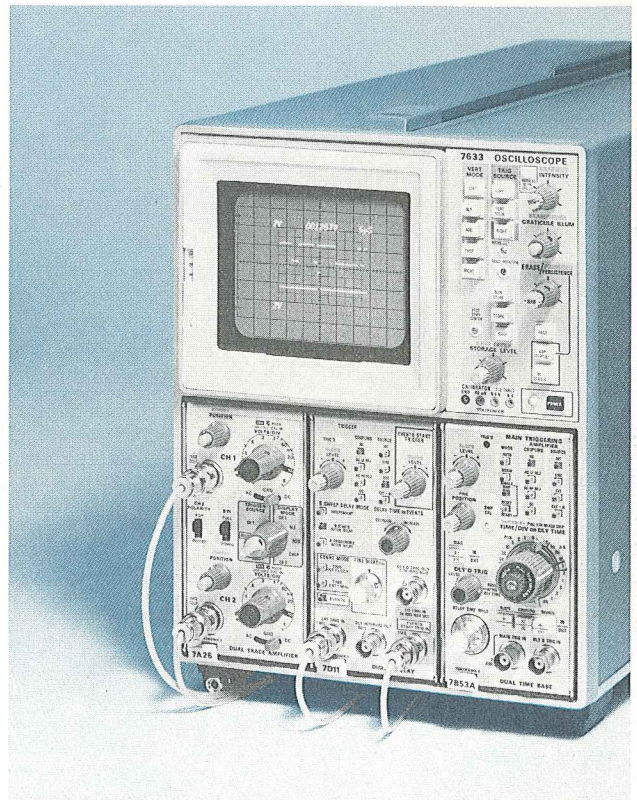
### 7000-SERIES PLUG-IN OSCILLOSCOPES

The **7633 Storage Oscilloscope** is a 100-MHz direct-view storage oscilloscope with a stored writing speed capability of 1000 cm/ $\mu$ s. The instrument features multi-mode storage including variable persistence, bistable and conventional nonstore modes. In addition, a fast writing 8 x 10 div (.45 cm/div) mode is included which provides the instrument's top writing speed.

Crt readout provides quick on-screen reference of measurement parameters. And a selection of 30 different 7000-Series plug-ins permits 'custom-tailoring' the instrument to the job from the outset, and expansion of its capabilities as the needs arise.

The **7623A Storage Oscilloscope** is electrically the same as the 7633 without the fast-writing reduced scan mode of operation. All other operating modes are included, with a stored writing speed of 135 cm/ $\mu$ s in the fast storage mode. The 7623A offers low-cost multi-mode storage for those applications not requiring the faster stored writing speed of the 7633.

7633 Storage Oscilloscope .....	\$3650
R7633 Storage Oscilloscope .....	\$3750
Option 1 w/o Crt Readout .....	Sub \$400
7623A Storage Oscilloscope .....	\$3000
R7623A Storage Oscilloscope .....	\$3100
Option 1 w/o Crt Readout .....	Sub \$400



### PORTABLE OSCILLOSCOPES

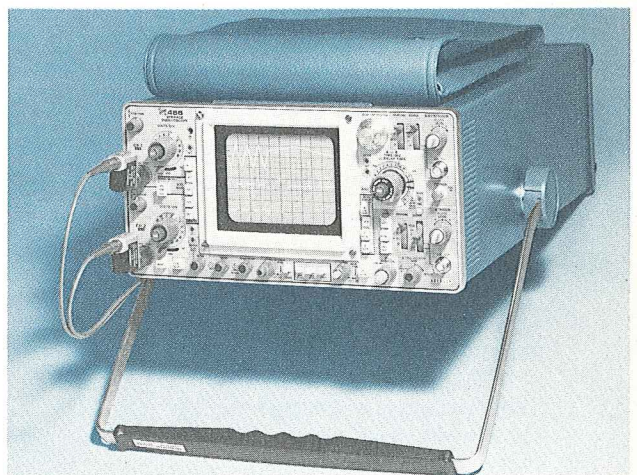
The **466 Storage Portable** extends laboratory-standard storage oscilloscope measurements from the test bench into the field. The 466 features variable persistence and fast transfer modes of storage; and in fast, reduced scan operation can achieve a stored writing rate of 1350 cm/ $\mu$ sec.

Its bandwidth is DC to at least 100 MHz within -3 dB. Using its X10 magnifier, the 466 achieves a 5-nsec/division sweep rate. Vertical deflection sensitivity is 5 mV/division.

With many features and operator conveniences based on the well-proven 465 portable oscilloscope, the 466 is designed for use with minimal operator training. Its easy-to-use controls are functionally grouped to facilitate operation.

Without panel cover or accessories, the 466 weighs just 26 pounds.

<b>466 STORAGE PORTABLE OSCILLOSCOPE .....</b>	<b>\$3850</b>
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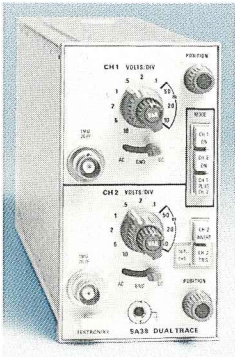


Return the enclosed inquiry card for further information on the products, or copies of the literature described in this supplement.

U.S. Sales Prices FOB Beaverton, Oregon

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## 5000-SERIES PLUG-IN OSCILLOSCOPES



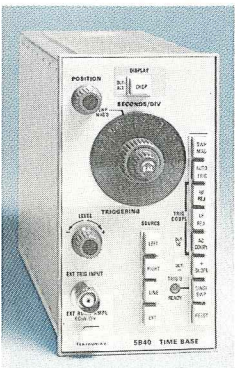
The **5A38 Dual Trace Amplifier** is designed for use in the 5400-Series Oscilloscopes. It provides two input channels with 35 MHz bandwidth and deflection factors ranging from 10 mV/div to 10 V/div. Operating modes include channel 1 only, channel 2 only (normal or inverted), dual trace (alternate or chopped), and added. Crt readout of the deflection factor is included in the 5A38.

**5A38 Dual Trace Amplifier . . . . . \$350**



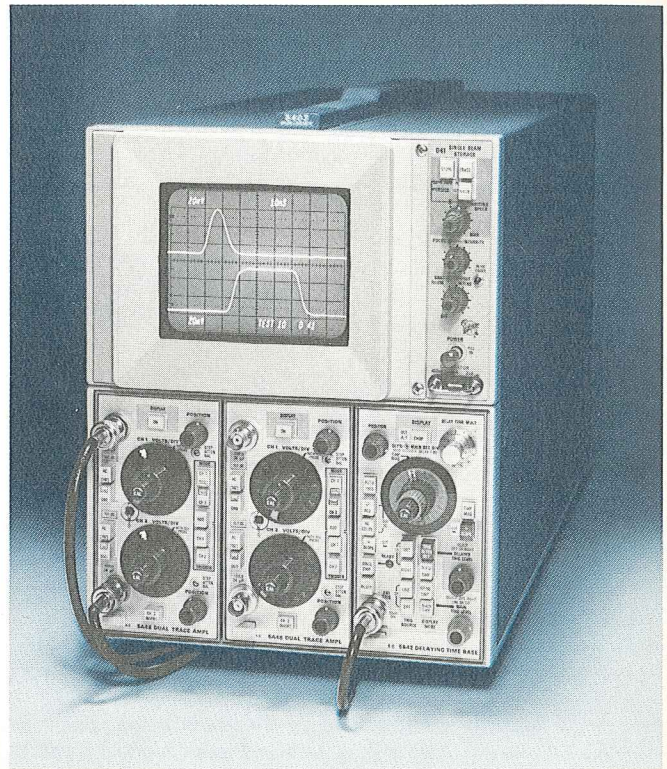
The **5A45 Single-Trace Amplifier** provides the 5400-Series Oscilloscope with 60 MHz bandwidth and deflection factors from 1 mV/div to 10 V/div (25 MHz bandwidth below 5 mV/div). Crt readout of the deflection factor is included.

**5A45 Single-Trace Amplifier . . . . . \$250**



The **5B40 Time Base** operates in the 5400-Series Oscilloscopes to provide sweep rates from 0.1  $\mu$ s/div to 5 s/div. Sweep rate is extended to 10 ns/div by the 10X magnifier. Capabilities include internal and external triggering to 60 MHz and single sweep operation. Circuitry for crt readout of sweep rate is included.

**5B40 Time Base . . . . . \$275**



The **5403/D41 Variable Persistence Storage Oscilloscope** provides a low cost means of conveniently displaying hard-to-view waveforms. Low rep rate signals are easily viewed as continuous traces. With the 5  $\mu$ s/div writing speed, single-shot phenomena and extremely low rep rate signals can be readily viewed in normal room light. As part of the versatile 5400 Series the 5403/D41 includes 60 MHz bandwidth, crt readout of deflection factors, three plug-in capability, easy bench-to-rackmount convertibility, and a choice of 20 plug-ins.

**5403/D41 Oscilloscope . . . . . \$2275**  
**R5403/D41 Oscilloscope . . . . . \$2275**

### Options

**Option 1 Without crt readout . . . . . sub \$350**  
**Option 3 Programmable crt readout . . . . . add \$ 60**  
**Option 4 Protective panel cover (cabinet model only) . . . . . add \$ 15**  
**Option 5 Reduce writing speed to 1 div/ $\mu$ s . . . . . sub \$300**

### PRODUCTS LISTED IN PREVIOUS SUPPLEMENTS

#### Supplement No. 1

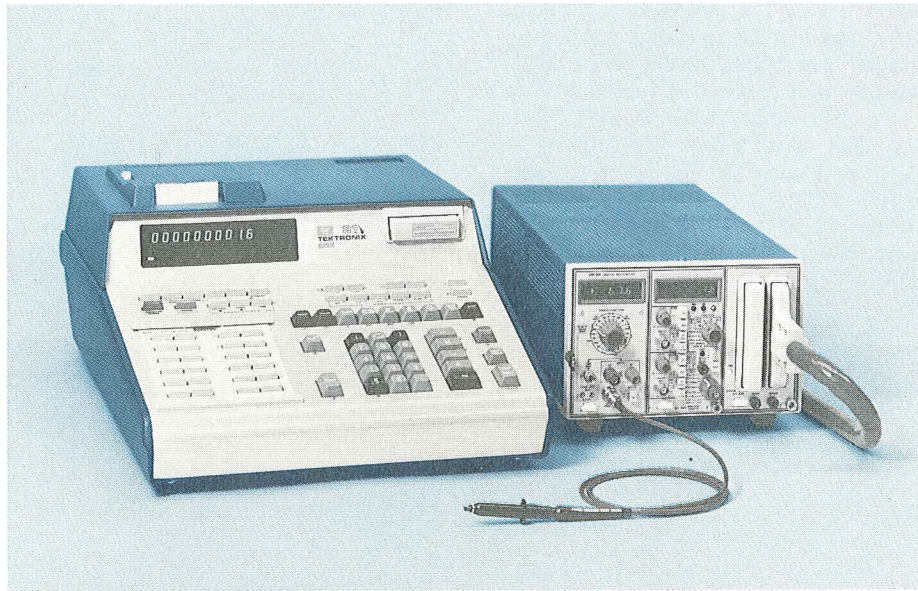
7L13 Spectrum Analyzer  
 7D12 A/D Converter and M1, M2, M3  
 7A24 Dual Trace Amplifier  
 R7912 Transient Digitizer  
 DPO/3100 Measurement System  
 5403 Oscilloscope System  
 214 Storage Oscilloscope  
 4623 Hard Copy Unit  
 4014/4015 Computer Display Terminal  
 Plot-10/Decision Maker

#### Supplement No. 2

31/10 Graphic Calculator System  
 D61 Oscilloscope  
 D75 Oscilloscope  
 408 and 412 Monitors

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## COMPUTER INSTRUMENTATION SYSTEMS



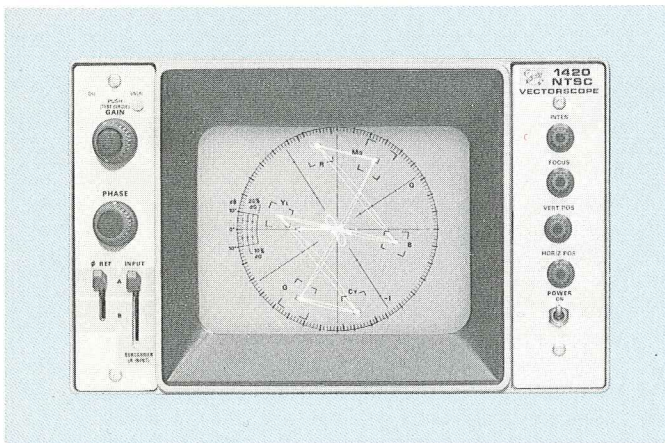
**The 31/53 Computer Instrumentation System.** Tektronix introduces a major innovation in computer instrumentation systems with its newly announced 31/53 system. Containing an expandable memory processor, a wide range of program step capability, an alphanumeric keyboard and printer, digital tape cartridges, a complete library of standard mathematical and statistical software, interfacing to D/As and to an optional high performance digital plotter, the system is being marketed for less than \$6000. Included in this price are typical multi-meters and counters of the TM 500 Series.

Capable of data acquisition, data transformation, data processing and analysis, the system enables the user to log, store, compare, and analyze measurement data as it arrives. Voltages to 2 kV, current measurement to 2 amps, resistance measurement to 20 megohms, frequencies from DC to 550 MHz and a wide range of temperatures in Fahrenheit and centi-

grade—all these are available in a single standard 31/53 system. Data can be recorded and viewed on an alphanumeric thermal printer, an easy to observe readout and a high performance plotter. Data transformation and analysis are accommodated by the expandable programming capability of the system. 512 program steps is the system standard. Up to 1000 memory registers are available.

Markets for which the portable system is designed include those largely manually served in the past by stand alone meters and counters in rackmounted higher-priced systems. These markets include design, evaluation and manufacturing of electronic products, including components; computer field servicing; mechanical design and evaluation; and the firm's long established medical, physics, resource exploration, engineering and atomic energy fields.

## TELEVISION PRODUCTS



**The 1420-Series Vectorscopes** are compact, 1/2-rackwidth instruments designed to display vectors of the chrominance and burst components of either an NTSC (1420), PAL (1421) or PAL M (1422) composite video signal. This series provides a low-cost way to meet basic vectorscope requirements in

CCU's VTR's and similar applications. The instrument is particularly well suited for side-by-side rack mounting with the TEKTRONIX 528 Waveform Monitor. The 1420 weighs a little over 15 pounds with an optional carrying case.

The internal graticule is designed for the vector display of color bars and burst. A special graticule feature allows differential gain or phase errors to be determined to reasonable accuracy for many applications—within 2° and 5%.

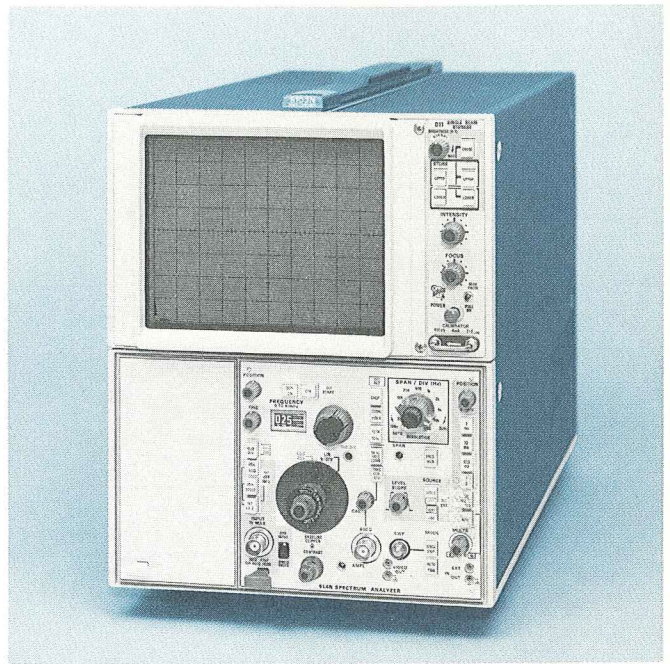
Two loop-through inputs accept the signal for display on the crt or for externally locking the subcarrier regenerator oscillator. A front-panel lever switch selects the signal from either of the inputs for phase locking the subcarrier regenerator. A second front-panel lever switch selects the signal to be displayed on the crt and can attenuate one channel for viewing large signals. A front-panel GAIN control varies the size of the crt display above and below unity.

PAL (1421) and PAL M (1422) displays are switchable to an "NTSC FORMAT".

NTSC Vectorscope 1420 .....	\$1450
PAL Vectorscope 1421 .....	\$1450
PAL M Vectorscope 1422 .....	\$1500

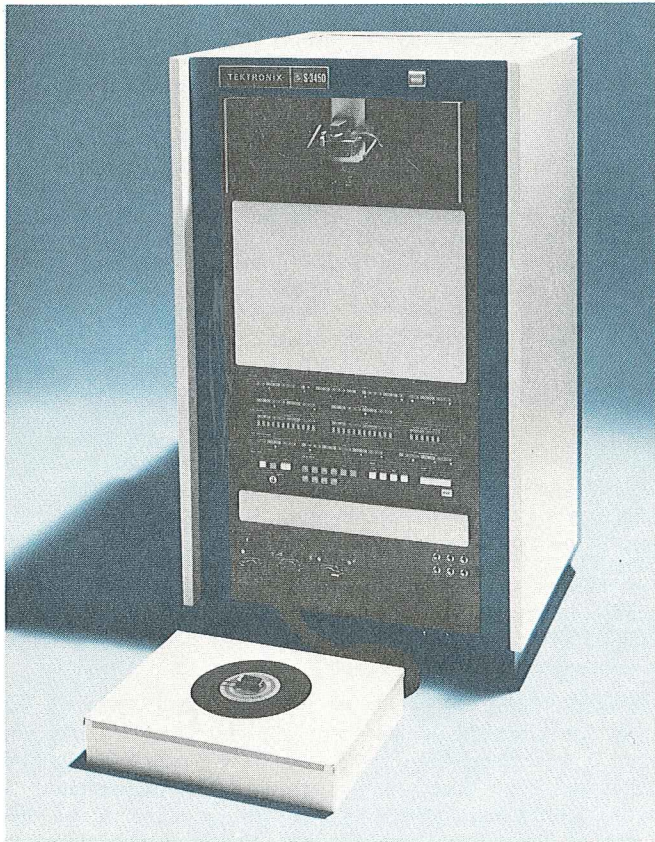
## SPECTRUM ANALYZERS

The 5L4N Spectrum Analyzer covers the low-frequency range from 0 to 100 kHz and offers both high performance and economy. Unique features include pushbutton selection of 50  $\Omega$ , 600  $\Omega$  or 1 M $\Omega$  input impedance with calibration appropriate to the selected impedance. Dynamic range is 80 dB with intermodulation distortion more than 70 dB down from two full-screen signals. A built-in tracking generator is standard. This low-frequency swept-front-end spectrum analyzer operates with any 5000-Series System, using two of the three compartments. We recommend the 5L4N Spectrum Analyzer with a D11 Storage Display Unit and 5103N mainframe as the optimum system for all applications.



5L4N Spectrum Analyzer .....	\$1950
5103N/D11 Storage Scope .....	\$1095
Complete Price .....	<u>\$3045</u>

## SEMICONDUCTOR MEMORY TEST SYSTEMS



**S-3400 Systems.** Tektronix signals a major commitment to the semiconductor memory test systems market by announcing a new series of systems. Four models are initially offered designated S-3420 through S-3450. The low cost S-3420 is configured for general receiving inspection applications. The S-3430 and S-3440 are function testers equipped for bipolar (ECL, TTL) and MOS memory ICs, respectively. The S-3450 provides both function and dc parametric test capabilities. Each system features interactive keyboard as well as stored program operation. Stored programs are loaded with paper tape. Because of the modular nature and bus structure of the S-3400 systems each offers many options and each is field expandable.

Prices will vary from \$40,000 upward dependent upon options chosen. Deliveries are expected to begin within 90 days after receipt of order.

### NEW LITERATURE

**TM 500 Series Application Note No. 4** describes a method of measuring resistances up to 20  $\Omega$  with a resolution of one milliohm using the DM 501 Digital Multimeter and the PS 501 Power Supply.

**TM 500 Series Application Note No. 4** describes a method of measuring resistances up to 20  $\Omega$  with a resolution of one milliohm using the DM 501 Digital Multimeter and the PS 501 Power Supply.

**Photometry/Radiometry Application Note No. 6** discusses the use of the TEKTRONIX J16 Digital Photometer in making luminance and illuminance measurements, and stresses the importance of color correction and cosine correction.

**CRT Recording Cameras** booklet contains complete information on TEKTRONIX Cameras, including a camera selection check list and a discussion of films, lenses, etc.

U.S. Sales Prices FOB Beaverton, Oregon

**Tektronix, Inc.**

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