



# TEKTRONIX

*Manufacturers of*

**CATHODE - RAY OSCILLOSCOPES  
AND VIDEO TEST INSTRUMENTS**

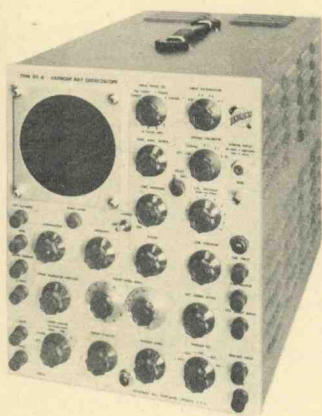
**"SHORT FORM" CATALOG**

June 1950



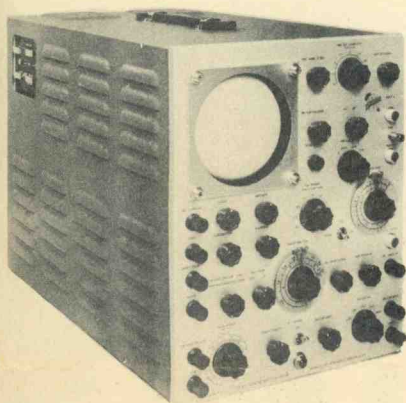
# THE SYMBOL OF EXCELLENCE

**TEKTRONIX**  
ALL OSCILLOSCOPES



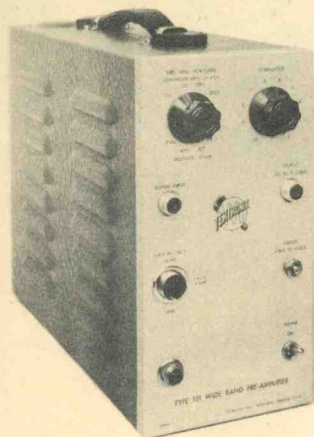
## TYPE 511-AD OSCILLOSCOPE

The Tektronix Type 511-AD Cathode Ray Oscilloscope offers the desirable combination of the following characteristics: 5 cps—10 mc. bandwidth; .1  $\mu$  sec/cm—.01 sec/cm sweeps; trigger sensitivity, pulses as short as .05  $\mu$ sec duration and as low as .5v amplitude; vertical deflection sensitivity from .25 v/cm to 200 v/cm; voltage calibrator from 0 to 100 v in 3 ranges; .25  $\mu$ sec. delay network which can be switched in or out of the vertical amplifier at will. This instrument is extremely valuable for use in the video testing field, where excellent transient response, wide bandpass, and high sweep speeds are mandatory. Weight 50 lbs. Price: Type 511-AD \$845.00; Type 511-A (without delay network) \$795.00.



## TYPE 512 OSCILLOSCOPE

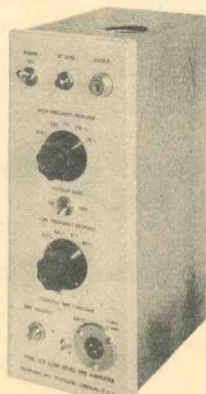
The Tektronix Type 512 Oscilloscope features: balanced, direct-coupled, push-pull amplifiers with sensitivity ranging from 5 mv/cm to 50 v/cm; bandwidth from DC to 2 mc; sweep range from 3  $\mu$  sec/cm to .3 sec/cm; differential input to amplifiers; 1 kc square wave voltage calibrator from 0 to 50 v in 9 ranges, 2% full scale accuracy; sweeps of 1.0 sec/cm and 3.0 sec/cm available on order. With its high stability, sensitivity, and accurate calibration of timing and amplitude, the Type 512 has gained exceptional and immediate acceptance in the fields of biophysical and geophysical research, as well as being an indispensable circuit development tool in the hands of the electronic engineer. Weight, 53 lbs. Price \$950.00.



## TYPE 121 PRE-AMPLIFIER

The Tektronix Type 121 Pre-Amplifier was designed primarily to augment the vertical amplifier of the Type 511-A oscilloscope, providing an overall sensitivity of 2.5 mv/cm, while preserving the bandpass and transient response. May be used with other oscilloscopes or wide band equipment.

Voltage gain, 100; input imp., 1 meg, 20  $\mu$ mf; output,  $\pm 1$  v, 93 ohms; band pass, 5 cps, 12 mc; front panel supply socket, 6.3 v DC, 20-120 v DC; portable; self-contained power supply. 10" high, 5" wide, 14" deep. Weight 18 lbs. Price \$265.00.



## TYPE 122 PRE-AMPLIFIER

The Tektronix Type 122 Pre-Amplifier has been designed as an accessory to the Type 512 Oscilloscope, for use in the biophysical, geophysical and other fields requiring additional sensitivity in the limited pass-band of 1/6cps-40 kc. At maximum gain, a 5  $\mu$ v signal will produce a 1 cm deflection on the oscilloscope. Use of the differential input gives a rejection ratio of 90 db for unwanted signals. A maximum of 20 v (peak-to-peak) is available at the cathode follower output. Multiposition switches permit separate control of both ends of the pass band. Battery operated for minimum noise level. Price \$85.00.

5" Cathode Ray Tubes • Direct triggered or recurrent sweeps • Sweep • Positive or negative internal and gate available on front panel • 5" of sweep • All DC voltages electrically adjusted for optimum transient response • high impedance input • Excellent light conditions • Electrically welded weight • Truly portable — self-contained

## TYPE R-500 S

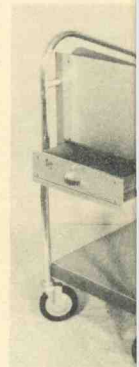
20° Tilt Top

Panel Space for "Built-ins"

Lined Accessories Drawer

Auxiliary Apparatus Shelf

5" Rubber-tired Wheels, all casting



## TYPE 210 POWER SUPPLY



The Tektronix Type 210 Power Supply is designed to provide the potentials necessary for the new high writing rate cathode-ray tubes. Voltages

+10 kv, +6.6 kv, +3.3 kv and —2 kv. Oil-filled. Weight 8 lbs. Price \$80.00.

## TYPE 420 POWER SUPPLY

The Tektronix Type 420 Power Supply is similar to the 210, but will furnish +20 kv and —4 kv or +10 kv and —2 kv. Oil-filled. Weight 12 lbs. Price on request.

**TEMPORARILY DELETED**

All Tektronix instruments are full of materials and workmanship for one year required, whether at no charge under net prices, they will be shipped from upon request, prepaid to any point and Canada.



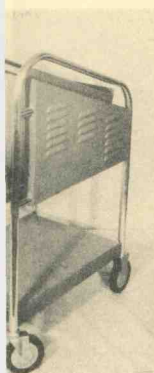
# ANCE IN INSTRUMENTATION

**RONIX**

## OPES FEATURE:

Leading sweep dials • Single, trigger speeds accurate to 5% or better external triggering • Sweep and X magnification for any desired 20% ronicallly regulated • Individually use • RC probes for low capacity, image contrast under high ambient led all aluminum construction — low ntainend.

## SCOPEMOBILE

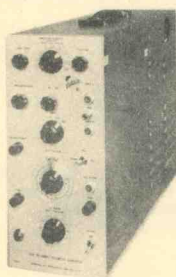


Easily maneuverable  
18½" wide, 39" high  
and 30" deep  
"Dry" Weight 42 lbs.  
Price \$97.50 f.o.b.  
Portland, Oregon

## TYPE 112 DC AMPLIFIER

The Tektronix Type 112 DC Amplifier was developed to be used with Tektronix or other oscilloscopes.

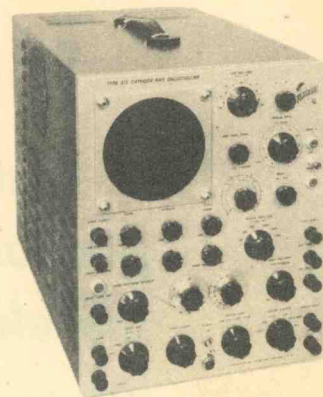
Same amplifier as in Type 512; self-contained regulated supply; 1kc calibrator; trigger output; marker input; output voltages, 150v high imp.; 75v, 8000 ohm load; av. output level, 150v and gnd. Weight 32 lbs., 15½" high, 6½" wide, 21½" deep. Price \$495.00.



ly guaranteed against defective ma-  
year. Should replacement parts be  
der warranty terms or at established  
m the factory, via air transportation  
within the continental United States

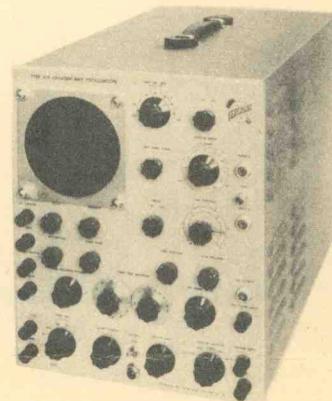
## TYPE 513-D OSCILLOSCOPE

The Tektronix Type 513-D Oscilloscope has the following features: high writing rate CRT with regulated accelerating potential of 12 kv (+10 kv and -2 kv); distributed type vertical amplifier, DC to 20 mc; maximum deflection sensitivity of 30 mv/cm; trigger rate generator with 5 fixed pulse rate frequencies of .2 kc, .5 kc, 1 kc, 2 kc and 5 kc; a 1 kc square wave voltage calibrator from 0 to 50 v in 6 ranges, 2% full scale accuracy; other specifications similar to those of Type 511-A. This instrument is extremely useful in random pulse work where high writing rate is essential. Weight 70 lbs. Price, Type 513-D, \$1650.00. Type 513 (without delay network) \$1600.00.



## TYPE 514-D OSCILLOSCOPE

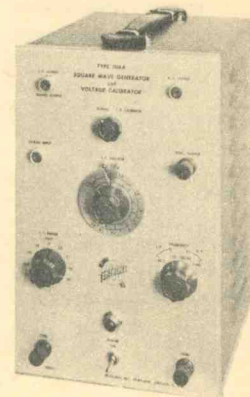
The Tektronix Type 514-D Oscilloscope offers the high frequency range of the Type 511-A with the additional advantages of direct-coupled vertical amplifier. Specifications: band-pass DC to 10 mc at .3 v/cm, and 5 cps to 10 mc at .03 v/cm; .1 μsec/cm to .01 sec/cm sweep range; square wave voltage calibrator variable from 0 to 50 v in 6 ranges, 2% full scale accuracy; undistorted deflection of 6 cm (±3 cm); accelerating potential of 3 kv (+1.5 kv and -1.5 kv); other specifications similar to those of Type 511-A. The Type 514-D admirably meets the requirements of those who do not need the higher writing rate of the Type 513-D, but require its direct-coupling and high sensitivity. Weight 62 lbs. Price: Type 514-D \$950.00; Type 514 (without delay network) \$900.00.



## TYPE 104-A SQ. WAVE GENERATOR

The Tektronix Type 104-A is a low cost generator of precision square waves with four fixed frequencies in the ranges most used to test wide band amplifiers and oscilloscopes. Its use in conjunction with any of the above oscilloscopes permits the transient response of an amplifier to be readily observed. Controls are provided enabling use of LF output as voltage calibrator, 5 mv to 50 v in 9 ranges, 2% full scale accuracy.

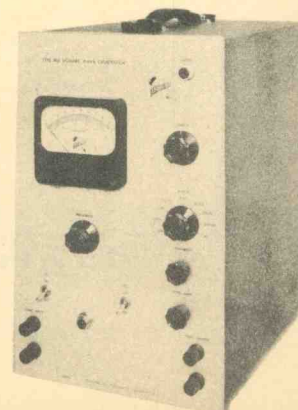
Frequencies: LF 50 cps, 1 kc; HF 100 kc, 1 mc; rise time, LF 3 μsec; HF .02 μsec; amplitude, LF 0-50 v; HF 0-5 v output load, LF 0-20 k; HF 0-93 ohms; portable. Weight 18 lbs. Price \$195.00.



## TYPE 105 SQ. WAVE GENERATOR

The Tektronix Type 105 Square Wave Generator is an extremely versatile precision instrument for checking transient response and bandwidth (25 cps to 20 mc) of amplifiers, filters, attenuators, etc. Regulated DC supply, direct reading frequency meter, small size, and other features all combine to make this instrument a necessity for any well equipped laboratory.

Frequency: 25 cps to 1 mc variable; risetime, .02 μsec if load is 93 ohms or less; amplitude, 100v maximum; 15v across 93 ohms; accuracy of frequency meter, 3% of full scale; sync voltages, output 5v; input 3v-50v. Weight 35 lbs. Price \$395.





# OUR CONTINUING CREED

is that of serving Tektronix customers with products and policies that are unexcelled in the electronics industry and limited only by the current state of the art.

**For Detailed Specifications Please Contact Nearest Representative or Tektronix, Inc.**

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## TEKTRONIX, INC.

Manufacturers of Cathode-Ray and Video Test Instruments

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