Manufacturers of
CATHODE-RAY OSCILLOSCOPES
AND VIDEO TEST INSTRUMENTS
“SHORT FORM” CATALOG
APRIL 1951
THE SYMBOL OF EXCELLENCE IN INSTRUMENTATION

TYPE 511-D OSCILLOSCOPE

The Tektronik Type 511-D Cathode Ray Oscilloscope offers the desirable combination of the following characteristics: 5 cps to 10 mc. bandwidth; 0.1 sec/cm; .01 sec/cm sweep range; 0.3 sec/cm; 0.01 sec/cm differential input to amplifiers; 1 kc square wave voltage calibrator from 0 to 20 to 9 ranges; 2%, full scale accuracy; sweeps of 1.0 sec/cm; 2.5 sec/cm; 5.0 sec/cm all 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 512 OSCILLOSCOPE

The Tektronik Type 512 Oscilloscope features balanced, direct-coupled, push-pull amplifiers with sensitivity ranging from 5 mv/cm to 50 cm/cm; bandwidth from DC to 2 mc; sweep range from 0.3 sec/cm to 3 sec/cm; differential input to amplifiers; 1 kc square wave voltage calibrator from 0 to 20 to 9 ranges; 2%, full scale accuracy; sweeps of 0.5 sec/cm; 1.0 sec/cm; 2.5 sec/cm; 5.0 sec/cm all 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: 33 lbs. Price $950.00.

TYPE 121 PRE-AMPLIFIER

The Type 121 Pre-Amplifier was designed primarily to augment the vertical amplifier of the Type 511-A oscilloscope, providing an overall sensitivity of 25 mv/cm, while preserving the bandwidth and transient response. May be used with other oscilloscopes or wide band equipment. Voltage gain, 100, input impedance, 1 meg, 20 µf output, 1 vac, 93 ohm bond pair, front panel supply socket, 6.3 v DC, 20-120 v DC, portable, self-contained power supply, 105 high, 5" wide, 14" deep. Weight 18 lb. Price $265.00.

TYPE 122 PRE-AMPLIFIER

The 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/sec to 40 kc. At maximum gain a 1 sec input will produce a 1 cm deflection on the oscilloscope. Use of the differential input gives a rejection ratio of 90 db for undesired signals. Maximum of 20 v (peak-to-peak) is available at the cathode follower output. Multiplication switches permit separate control of both ends of the pass band. Battery operated for minimum noise level. Price $85.00.

Oscilloscope Features

- Cathode Ray Tubes
- Direct reading sweep dials
- Single, triggered or recurrent sweep
- Sweep range accurate to 5% or better
- Positive or negative internal and external triggering
- Sweep and gate available on front panel
- All DC voltages electronically regulated
- Individually adjusted for optimum transient response
- Excellent image contrast under high ambient light conditions
- Electrically welded all aluminum construction — low weight.

TYPE 517 OSCILLOSCOPE

The Tektronik Type 517 is a wide band high voltage cathode ray oscilloscope designed primarily for the observation and photography of very fast transients. It contains a 20 kv power supply mounted on a scope-mobile to make up a convenient and useful instrument. Features include: High writing rate, attained by 24 kv accelerating potential on a metalized 911 CRT. Eleven accurately calibrated sweep rates from .01 to 20 sec/cm. Sweep triggered by observed signals of 2 mm or greater amplitudes. Signal delay to permit observation of front of pulse. Distributed vertical amplifier with 200 µf peak, and 1 sec/cm; .01 sec/cm differential input to amplifiers. Accuracy ±2%. All supply voltages to indicator (excluding 24 kv and heating) electronically regulated. Trigger rate generator, variable from 15 to 15,000 cps. Panel switch to reduce maximum potential to 10 kv by using twice the sweep sensitivity and sweep rates. Standard accessories: Scope-mobile, cathode ray tube, probe and attenuator, 170 ohm attenuator, viewing screen, 3 volt lamp. Weight 175 lbs. Price $3200.00.

TYPE 517-D OSCILLOSCOPE

The Tektronik Type 517-D Oscilloscope has the following features: high writing rate CRT with regulated accelerating potential of 12 kv (+10 kv and -10 kv); distributed vertical amplifier; DC to 20 mc; maximum deflection sensitivity of 50 mv/cm; trigger rate generator with 5 fixed pulse rate frequencies of 2 kc, 5 kc, 1 kc, 250 kc and 5 kc; 1 kc square wave voltage calibrator from 0 to 20 to 9 ranges; 2%, full scale accuracy; electronic sweep rate similar to that of Type 511-A. This instrument is extremely useful in random noise work where high writing rate is essential. Weight 70 lbs. Price $1550.00. Type 517-D (without delay network) $1400.00.

TYPE 514-D OSCILLOSCOPE

The Tektronik Type 514-D Oscilloscope offers the high frequency range of the Type 511-A, with the additional advantages of direct-coupled vertical amplifiers. Specifcations: Band-pass DC to 10 kc at 3.3 v/cm, and 5 cps to 10 mc at .03 v/cm, 1.1 µf/cm at 0.01 sec/cm; sweep range: square wave voltage calibrator from 0 to 30 to 6 ranges; 2%, full scale accuracy; electronic sweep rate similar to that 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 67 lbs. Price: Type 514-D $975.00, Type 514 (without delay network) $900.00.

TYPE 104-A SQ. WAVE GENERATOR

The Tektronik Type 104-A is a low cost generator of precision square waves with four fixed frequencies in the ranges most used in testing wide band amplifiers and oscilloscopes. Its use in conjunction with any of the above oscilloscopes permits the rapid generation of complex waveforms that are easily observable. Controls are provided enabling use of LF signal as voltage calibrator, 5 sec to 50 mc, 5 ranges, 2%, full scale accuracy. Frequencies: LF 50 cps, 1 kc; HF 100 kc, 1 µsec rise time, LF 3 sec; HF .02 sec; amplitude, LF .500 v; HF .5 v output level, LF 0-20 v; HF 0-93 ohms, portable. Weight 18 lbs. Price $195.00.

TYPE 105 SQ. WAVE OSCILLOSCOPE

The Tektronik Type 105 Square Wave Generator is an extremely versatile precision instrument for checking transient response and bandwidth (25 mc 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, resolution, .02 sec of level to 93 ohms or less, frequency range, 25 mc to 20 mc, 5 ranges, 5% maximum, 15v across 93 ohms, accuracy of frequency meter, 3% of full scale, sync voltages, output level, 3v to .5v, weight, 10 lbs. Price $195.00.

Priced as shown are E.A. Porter, Inc., Portland, Oregon.
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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.

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