



dielectric losses on the dynamic resistance being measured.

Current and Voltage Ratings: Maximum allowable plate current, 400 ma; maximum plate voltage, 1500 volts.

Electrode Voltage Supply: Batteries or other suitable power supplies are necessary for providing the various voltages required by the device under test.

Bridge Source: TYPE 1214-E Oscillator is recommended.

Null Detector: The TYPE 1212-A Unit Null Detector with the TYPE 1951-E Filter is recommended.

Accessories Supplied: Adaptors as listed above, all necessary plug-in leads, and shielded patch cords for connecting generator and detector.

Mounting: The instrument is mounted in a hardwood cabinet. A wooden storage case is provided for the adaptors and leads. Storage space is provided for a spare Universal adaptor, on which any type of socket can be permanently mounted.

Dimensions: (Length) 18½ x (width) 15¾ x (height) 11 inches.

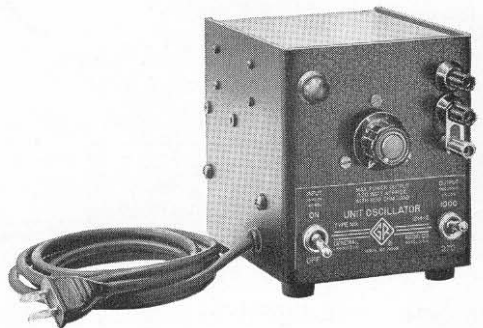
Net Weight: TYPE 1661-A weighs 40 pounds. The accessories supplied and the accessory box weigh 14 pounds.

Type		Code Word	Price
1661-A	Vacuum-Tube Bridge.....	BEIGE	\$975.00

TYPE 1214-E UNIT OSCILLATOR

The TYPE 1214-E Unit Oscillator was designed to meet the bridge-source requirements of the TYPE 1661-A Vacuum-Tube Bridge described above. It is small, self-contained, sufficiently well shielded, adequate in power output, and of appropriate impedance level. Output is available at 1000 cycles and at the low-audio frequency of 270 cycles, which is desirable for tests on some transistors.

Like the other TYPE 1214 Oscillators, this instrument includes a transformerless power supply, and isolation from the power line is obtained by inductively coupling the output circuit to the oscillator tank.



The impedance level presented by the TYPE 1661-A Bridge is in the range of 550 to 2100 ohms, and the power delivered by a typical TYPE 1214-E over this range is at least 300 milliwatts.

SPECIFICATIONS

Frequency: 270 and 1000 cycles per second.

Accuracy: ±2%.

Output: 300 milliwatts into 800 ohms.

Output Impedance: Approximately 200 ohms at 270 cycles; approximately 500 ohms at 1000 cycles; both at maximum setting of output control.

Harmonic Distortion: 3% with 800-ohm load.

Power Supply: 105 to 125 volts, 50 to 60 cycles.

Power Input: 16 watts at 115 volts.

Accessories Supplied: Spare fuses.

Tube Complement: One 117N7-GT.

Dimensions: Panel, (width) 4¾ x (height) 5¼ inches; depth behind panel, 5⅛ inches.

Net Weight: 4½ pounds.

Type		Code Word	Price
1214-E	Unit Oscillator.....	ASSAY	\$75.00





TYPE 1951-E FILTER

The null detector recommended for the TYPE 1661-A Vacuum-Tube Bridge is the TYPE 1212-A Unit Null Detector. It is essentially a three-stage amplifier with the null indicated on a panel meter. The response is quasi-logarithmic. For maximum sensitivity and selectivity, it is suggested that an impedance-matching filter be placed between the bridge and the amplifier. For 400- and 1000-cycle operation, the TYPE 1951-A Filter has proved adequate. Since provision has been made for 270-cycle operation of the vacuum-tube bridge, a new filter has been designed to include the new frequency. The TYPE 1951-E Filter has

a panel switch to permit operation at either 270 or 1000 cycles. Like the TYPE 1951-A model, it provides four input connections for optimum impedance matching over the nominal ranges of 0-5 kilohms, 5-50 kilohms, 50-500 kilohms, and 500 kilohms and higher.

The filter is a tuned circuit with a capacitive voltage divider to provide the impedance matching. The inductor is a toroid with permalloy shielding. As a consequence, external coupling is negligible and the filter can be connected to the input of an amplifier of microvolt sensitivity without introducing spurious pickup.

SPECIFICATIONS

Frequency: 270 and 1000 cycles.

Second Harmonic Rejection: At least 30 db.

Accessories Supplied: One each TYPE 274-MB

Double Plug, TYPE 274-NK Shielded Plug, TYPE 874-Q6 Adaptor.

Dimensions: $3\frac{1}{2}$ x $3\frac{3}{4}$ x $4\frac{3}{8}$ inches, over-all.

Net Weight: $1\frac{3}{4}$ pounds.

<i>Type</i>		<i>Code Word</i>	<i>Price</i>
1951-E	Filter.....	FURRY	\$80.00

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