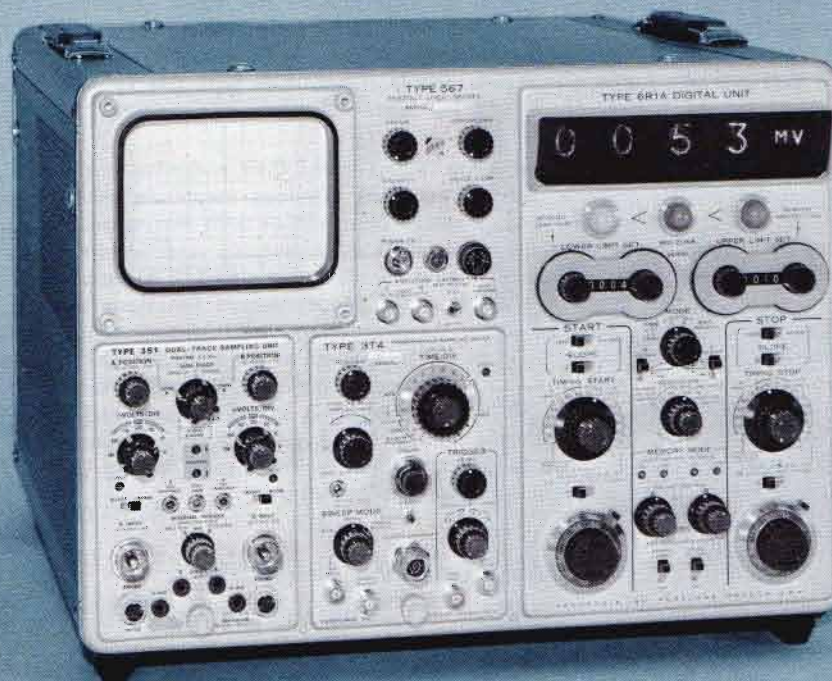


READOUT OSCILLOSCOPES



- **DIGITAL READOUT OF RISETIME, AMPLITUDE, AND TIME DIFFERENCES**
- **SELECTABLE HIGH AND LOW NO-GO LIMITS**
- **ILLUMINATED NO-PARALLAX GRATICULE**

The Type 567 and R567 Readout Oscilloscopes are designed to provide digital readout of the waveform displayed on the cathode-ray tube. Digital readout provides greater accuracy, speed, and convenience of measurement over conventional CRT displays.

Using an amplifier and a time-base unit that provides digital readout information, and the Type 6R1A Digital Readout Unit, the Type 567 system is well suited for repetitive-pulse measurements. The system can be further extended through use of the Type 262 Programmer when faster measurements are desired.

CHARACTERISTIC SUMMARY

VERTICAL

Vertical deflection characteristics are determined by choice of 2-Series and 3-Series Amplifier Plug-In Units. See chart of Digital Readout Combinations for units which will provide both analog and digital displays.

HORIZONTAL

Horizontal deflection characteristics are determined by choice of 2-Series and 3-Series Amplifier and Time-Base Units. See chart of Digital Readout Combinations for units which will provide both analog and digital displays.

CRT

DISPLAY AREA—8 x 10 div. (Each major div = 1 cm).

ACCELERATING VOLTAGE—3.5 kV.

PHOSPHOR—P2.

OTHER

AMPLITUDE CALIBRATOR—5 V and 0.5 V into $\geq 1 \text{ M}\Omega$ or 500 mV and 50 mV into 50 Ω . Repetition rate is 20 kHz or 1 kHz.

POWER REQUIREMENTS—105 to 125 V or 210 to 250 V. Line frequency is 50 to 60 Hz. Power consumption is approx 405 watts.

DIGITAL READOUT COMBINATIONS

Digital and analog displays are simultaneously presented on the Type 567 Readout Oscilloscope and Type 6R1A Digital Unit. A Digital Readout Combination consists of a Type 567/6R1A and any of the following combinations of amplifier and

time-base Plug-In Units. Other 2-Series and 3-Series Plug-In Units can be used for normal analog CRT display, but do not provide digital readout.

PLUG-IN UNITS							
VERTICAL				TIME BASE			
TYPE	MINIMUM DEFLECTION FACTOR	T _R	BANDWIDTH	TYPE	CALIBRATED SWEEP RANGE		
3S1	2 mV/div	350 ps	DC to 1 GHz	3T2	200 ps/div to 100 μ s/div plus X10 magnifier		
3S2	2 mV/div			3T4*	Programmable 1 ns/div to 200 μ s/div		
S1		350 ps	DC to 1 GHz	3T77A	200 ps/div to 100 μ s/div plus X10 magnifier		
S2		50 ps	DC to 7 GHz	3B2	2 μ s/div to 1 s/div		
3S3	5 mV/div	350 ps	DC to 1 GHz				
3A2	10 mV/div	700 ns	DC to 500 kHz				

*Type 3T4, when used with Type 283 Real Time Adapter has an additional range of CALIBRATED SWEEP from 1 ms/div to 1 s/div, but no TIME POSITION in "REAL TIME" operation. Type 3T4 can also be programmed through a front panel connector. (See Type 3T4 catalog page.)

CHARACTERISTICS

AMPLITUDE CALIBRATOR

Front-panel selection of squarewave outputs of 20 kHz, crystal-controlled, accuracy $\pm 0.1\%$, or approx 1 kHz, RC time-constant controlled. Output voltages are 5 V and 0.5 V into 1 M Ω or greater, or 500 mV and 50 mV into 50 Ω . Connectors are BNC.

TEKTRONIX CRT

5-inch rectangular CRT with 3.5-kV accelerating potential. A P2 phosphor is normally supplied.

ILLUMINATED INTERNAL GRATICULE

Edge lighted graticule is marked in 8 vertical and 10 horizontal divisions (centimeters). Centerlines are also marked in 2-mm increments. Scale illumination is adjustable with a front-panel control.

DC-VOLTAGE SUPPLIES

Electronically regulated to compensate for widely varying line conditions. Separate regulated heater supply is included. Type 6R1A is also powered from these supplies.

POWER REQUIREMENTS

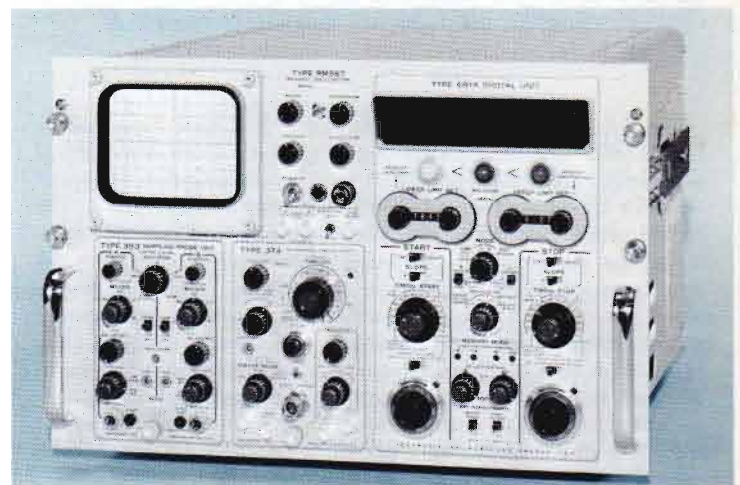
105 V to 125 V or 210 V to 250 V, 50 to 60 Hz, typically 405 watts. A thermal cutout switch prevents overheating of the instrument. Instrument is normally factory wired for 105 V to 125 V, but may be ordered wired for 210 V to 250 V.

TYPE 567 DIMENSIONS AND WEIGHTS

Height	13 $\frac{3}{4}$ in	34.9 cm
Width	16 $\frac{7}{8}$ in	42.8 cm
Depth	23 $\frac{3}{16}$ in	58.8 cm
Net Weight	48 $\frac{3}{4}$ lb	22.2 kg
Domestic shipping weight	≈ 76 lb	≈ 34.6 kg
Export-packed weight	≈ 97 lb	≈ 44.1 kg

TYPE RM567 DIMENSIONS AND WEIGHTS

Height	12 $\frac{1}{4}$ in	31.1 cm
Width	19 in	48.3 cm
Rack Depth	22 $\frac{3}{16}$ in	56.4 cm
Net weight	50 lb	22.7 kg



Domestic shipping weight	≈ 85 lb	≈ 38.6 kg
Export-packed weight	≈ 106 lb	≈ 48.2 kg

INCLUDED STANDARD ACCESSORIES

3 to 2-wire adapter (103-0013-00); 3-conductor power cord (161-0010-03); clear CRT protector plate (387-0935-00); smoke gray filter (installed) (378-0560-00); two instruction manuals (Type 567, 070-0322-01); (Type RM567, 070-0348-01). Also included with Type RM567: pair mounting slides (351-0086-00); set mounting hardware.

OPTIONAL ACCESSORIES

SUPPORTING CRADLES

When Type RM567 is used in a backless rack, these cradles are necessary for rear slide support. Order Part Number 040-0346-00

Please refer to Terms and Shipment, General Information page.