

## Model 1270 Product Specifications

### Physical Dimensions:

**Height:** 10.5 in (267 mm)  
**Width:** 9.75 in (247.6 mm)  
**Depth:** 5 in (127 mm)  
**Weight:** 6 lb (2.7 kg)

**Power:** Internal, rechargeable, 7.2V Nickel metal hydride

**Charging Source:** External 12VAC transformer, 1.3 A

**Operating Time:** Greater than 6 hours, continuous without backlight

### Environment:

**Operating temperature:**  
+32 deg F (0 C) to +122 deg F (+50 C)

**Typical temperature:**  
5 deg F (-15 C) to +140 deg F (+60 C)

**Storage temperature:**  
-4 deg F (-20 C) to +140 deg F (+60 C)

**Humidity:** 95% maximum relative humidity, non-condensing.

### Display:

320 x 240 dot matrix liquid crystal display (LCD) with CFL backlighting.

### Maximum Ranges:

63,700 feet (19,400 meters) at .99 VOP  
38,600 feet (11,700 meters) at .60 VOP  
Range varies with VOP. Maximum testable cable, length varies with pulse width and cable type.

### Horizontal Resolution:

<Coaxial: less than 2,000 ft (610 m): < less than .05 ft (.03 m) at .999 VOP, <less than .02 ft (.01 m) at .300 VOP  
>Line 1, Line 2: less than 2,000 ft (610 m): < less than .25 ft (.08 m) at .999 VOP, <less than .08 ft (.03 m) at .300 VOP  
>Any Input: less than 2,000 ft (610 m): < 1 ft (.1 m) at any VOP

### Vertical Sensitivity:

Greater than 65 dB.

### Velocity of Propagation:

Two user-selectable display formats VOP (%)

### Input Protection:

400 volts (AC+DC) from DC to 400 Hz and decreases to 10 volts at 1 MHz

**Distance Accuracy:** COAX: +/- 0.1 ft (.03 m) plus +/- .01% of reading.

Line 1, Line 2:: +/- 0.5 ft (.15 m) plus +/- .01% of reading.

Accuracy will vary with VOP and cable type.

**Serial I/O Port:** RS-232

### Output Pulses:

**BNC:** sub-nanosecond, 2, 25, 100, 500 nanoseconds

**Banana Jack:** 2, 25, 100, 1000, 6000 nanoseconds

### Auto dBRL:

2 digit auto return loss calculation at cursor setting.

### Auto Crosstalk:

2 digit crosstalk calculation at cursor setting.

**Waveform Storage:** *Each with full vertical resolution*

**Standard:** 8 waveforms

**Optional:** 32 waveforms

### Automatic/Manual Noise Filter:

**Standard:** 8x Averaging, 50/60 Hz, Auto-Filter.

**Optional:** 4x, 16x, 32x, 64x, 128x Averaging.

### Accessories:

**Standard:** Operator's manual, Shoulder strap, Battery charger, Battery pack, Probes and connectors, Filter, WAVE-VIEW for Windows software, Clip-on accessory bag.

**Optional:** Additional waveform storage package, Multi-function/multi-level filtering package, Strand hooks kit, Custom soft-side carrying case, Extended warranty.

**CE CERTIFIED**

**ISO 9001 Registered**

**Year 2000 Compliant**

with 3 digital precision ranging from 30.0% to 99.9%;  $\sqrt{2}$  with 4 digital precision (feet or meters mode or from 148.0 to 487.0 in feet mode.

**Output Connector:** Front panel Banana Jacks and BNC.

Technological advances allow changes in specifications and/or components. Changes may be made without notification.

**For more information on this instrument call (402) 466-0933 or (800) 688-TDRS.**