



# **HL1101 Ruggedized USB TDR**

# Features and Technical Specifications

Rise Time (10-90%)	200 ps
Time Base Range	3 µs
Time Resolution	10.2 ps
Functional Range	200 m (400 m roundtrip)
Distance Resolution	Within ≈ 4 cm
Amplitude	+ 250 mV
Aberrations	+15%, -5%, total of 20% peak-to-peak in first 1 ns +3%, -3%, total of 5% peak to peak after 1 ns
Calibration	Internal, ± 1 $\Omega$ at 50 $\Omega$
Time Base Accuracy	± 3%
Static Robustness	Complies with Class 2 of ESDS Component Sensitivity Classification (ESD STM5.1-1998)
Output Connector	1 x BNC
Interface	Powered and controlled via one USB cable
Included Software	ZTDR™ for Windows
Horizontal Scaling	Meters, feet, or time (ns)
Vertical Scaling	mV, Rho, normalized, impedance
Dielectric Constant	Selectable, 1.0 to 10.0
Dimensions	143.8 x 62.0 x 37.6 mm   5.66" x 2.44" x 1.48"
Weight	218 g   7.7 oz
Temperature Limits	0° to +40° C, operating   -40° to +85° C, storage
Warranty	1 year, see our website for details



#### PRODUCT SUMMARY

The HL1101 is an electrostatic-robust, USB-driven TDR suitable for deployment in a wide variety of lab, field, and industrial applications.

### **APPLICATIONS**

- Impedance characterization in cables
- Fault detection and location in communications cables
- Time of flight and delay measurement
- Soil moisture measurement
- Water level and turbidity measurement

## **DEPLOYMENT NOTES**

The HL1101 is the direct successor to the HYPERLABS HL8200 Series of TDRs and is suitable for the same applications.

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