

HL5220 Ruggedized HDMI Analyzer

Features and Technical Specifications



PRODUCT SUMMARY

The HL5220 measures TDR, TDT, NEXT, FEXT, return loss, and insertion loss in HDMI cable assemblies.

DEPLOYMENT NOTES

This product complies with Class 2 of ESDS Component Sensitivity Classification (ESD STM5.1-1998). Additional static protection is not required in most test environments.

In particularly harsh environments, the GROUND port on this instrument can be connected to a wrist strap for additional static protection.

WARRANTY

All HYPERLABS products carry a limited 1 year warranty. Damage from ESD is not covered by the warranty. Please see our website for details.

Number of Channels	10 differential pairs (20 channels)
Measurement Types	TDR, TDT, crosstalk, return loss, insertion loss
Rise Time (10-90%)	200 ps stimulus, 200 ps sampler
Bandwidth	1.5 GHz
Time Base Range	75 ns, $\pm 5\%$ accuracy
Time Resolution	2.3 ps
Functional Range	Systems up to 5 m
Distance Resolution	Within ≈ 4 cm
Amplitude	± 250 mV
Aberrations	+10%, -5%, max 15% peak-to-peak in first 1 ns +3%, -3%, max 5% peak-to-peak after 1 ns
Calibration	Software calibration to internal ($\pm 1 \Omega$ at 50 Ω) or external reference cable
Static Sensitivity	Complies with Class 2 of ESDS Component Sensitivity Classification (ESD STM5.1-1998)
Output Connector	2 x HDMI-A
Interface	Powered and controlled via one USB cable
XTDR™ Software	Included, Windows only
Horizontal Scaling	Meters, feet, time (ns), frequency (GHz)
Vertical Scaling	mV, Rho, normalized, impedance
Dielectric Constant	Selectable, 1.0 to 10.0
Dimensions	170.9 x 107.9 x 61.7 mm 6.73" x 4.25" x 2.43"
Weight	566 g 20 oz
Temperature Limits	0° to +40° C, operating -40° to +85° C, storage