

Test to A620
Guidelines!

CableEye® HVX System for High Voltage Cable Testing

Fast · Accurate · Superb Graphics & Documentation

Expandable 128 Test Point, Continuity & Hipot Test Systems

Item 829 HVX 1500 Vdc, 1000 Vac, 1 GΩ

Item 829A HVX-21 2100 Vdc, 1200 Vac, 5 GΩ

Options

- Item 828, 128-point Expansion Module (attaches to base of HVX)
- Item 828A, 128-point Expansion Module (attaches to base of HVX-21)
- Item 832, 4-Wire Kelvin Resistance Measurement, 1 mΩ at 1 A
- Item 833, Capacitance Measurement
- Item 829X, Remote Control Connector for Deadman Switch

Containing both low voltage and high voltage subsystems, the automation-ready HVX permits expanded testing for insulation resistance, dielectric breakdown, & Zener diode breakdown voltage, and can be upgraded for capacitance and/or 4-Wire measurement. After checking for opens, shorts, miswires, and resistance limits, the system applies a user-selectable voltage to each connection group in the cable - from 10 V to the maximum dc/ac voltage. Ramp Up, Ramp Down, Dwell Time (Test Time), Trip Current, and Trip Delay (Soak Time) are adjustable. Leakage Current detected during the high voltage test phase provides a measure of insulation quality. Insulation resistance up to 1 GΩ or 5 GΩ may be recorded. Any leakage current exceeding a preset limit reveals the presence of moisture, flux, or other contamination on exposed contacts.

Low voltage resistance thresholds can be set for contact resistance down to 0.1 Ω, and for isolation up to 5 MΩ. Measure embedded resistors from 100 Ω to 1 MΩ with 1% accuracy, and lesser accuracy from 0.1 Ω to 5 MΩ. LV measurement takes less than 0.5 s.

Robust hardware includes: A TEST pushbutton with READY, PASS, and FAIL indicators for one-button operation; Signal remote control and test probe sockets; External Terminals for basic insulation testing on chassis and individual components; Industry-standard 64-pin dual-row latch headers for easy interface to external test fixtures of your own design for custom applications; USB Communication; and a rugged, 1/16"-thick aluminum case with scratch-proof Lexan surface for long life in an industrial environment.

A simple, in-built scripting capability permits full production-testing automation from test through reports and labelling. Program optional external relay boards to switch diverter gates, lock & release latches, and more. Program Ready, Pass & Fail signals to operate tower lights, LEDs, audible tones, label printers etc. Use optional API & LabView interfaces for integration with other equipment.

HVX series testers allow users to meet industry-standard A620 guidelines. Archival-quality reports show user-selected test parameters such as test voltage, leakage current, and insulation resistance for each wire group, and denote PASS or FAIL.

Base Unit Price Includes: An expandable 128-point tester; screw terminal board set (CB29, Item 759) or your choice of another board set of equivalent value; CD with software and documentation (Getting Started Guide, Application Guide, Manual); one-year warranty inclusive of free tech support and software upgrades. READY TO USE

Select Add-On Options

Hardware: 4-Wire Measurement, Capacitance Measurement, HV Remote Control, Expansion Modules

Software: AutoBuild™, PinMap™, Connector Designer™, Custom Reporting, Win32/.NET API with LabView™ interface

Accessories: Foot Pedal, Relay Control Board (for external digital control), Pelican Carrying Case

1 Yr Renewable Warranty
Free Tech Support!

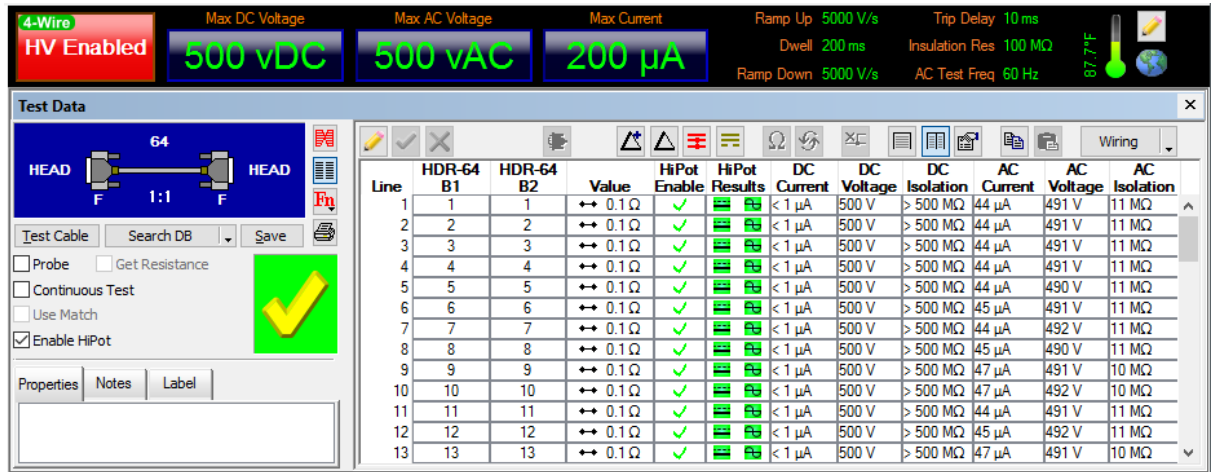


HVX	HVX-21
1500 Vdc	2100 Vdc
1000 Vac	1200 Vac
1 GΩ	5 GΩ

HVX with CB29s, 128 Test Points, Expandable



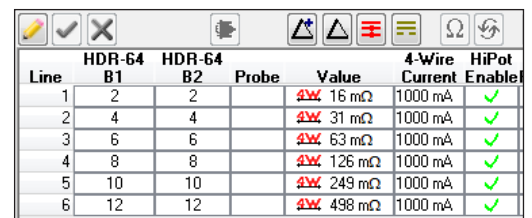
External Terminals for Component Testing



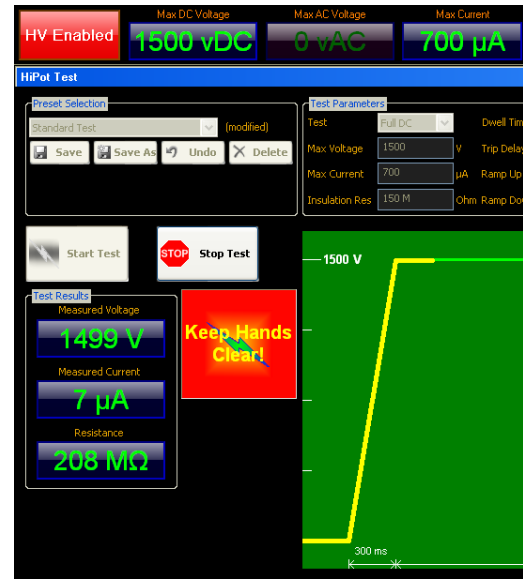
Test Result Screen

HVX SERIES TECHNICAL SPECIFICATIONS

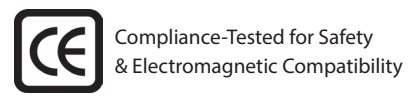
	Low Voltage HVX and HVX-21		High Voltage HVX HVX-21	
	Test Points Available	64, 128, 152 Switch Selectable		64, 128 Switch Selectable
Expandable	To 512 Max		To 1024 Max	To 512 Max
Test Time	0.2 s One Threshold 0.25 s Two Thresholds		Depends on voltage, ramp rate, and test algorithm selected	
USB Interface	USB 1.1, Fast, Two Ports Required			
Resistance Thresholds	0.1 Ω to 5 MΩ		0.1 Ω to 1 GΩ	0.1 Ω to 5 GΩ
Resistance Measurement	1% from 100 Ω to 1MΩ. Lesser accuracy over full range.		5% 1 MΩ to 100 MΩ, Lesser accuracy above 100 MΩ	
4-Wire Kelvin (Add-On Option)	Sensitivity: 1 mΩ ±1 mΩ, Range: 1 mΩ to 5 Ω Test Current Programmable to 1 A			
Diode Meas.	Orientation and Forward Voltage, Rev. Breakdown			
Test Voltage	10 V	10 - 1500 Vdc 10 - 1000 Vac	10 - 2100 Vdc 10 - 1200 Vac	in Increments of 1 Vrms
Test Voltage Accuracy		DC: ± 2%, ± 1.5 V AC: ± 4%, ± 2 Vrms		
Maximum Test Current	3.3 mA 2-Wire 100 mA to 1A 4-Wire	HV: Trip Current Adj, 25 µA – 1.5 mA		
Dielectric Withstand Range		DC: 25 µA – 1.5 mA AC: 50 µA – 1.5 mA		
Dielectric Withstand Accuracy		DC: ± 5%, ± 5 µA AC: ± 5%, ± 100 µA		
Dwell Time Range	1 µs to 100 ms	30 ms - 300 s		
IR Measurement Range	10 MΩ Max at 10 V	2 MΩ - 1 GΩ at 1500 Vdc	2 MΩ - 5 GΩ at 2100 Vdc	High depends on adapter leakage
Calibration	Recommended Yearly			
I/O Connectors	64-pin dual-row headers, Two per 128-point module.			
Remote Control	mDIN8 Connector for Footswitch or External control. Option: Front-Panel Remote Socket for Deadman Sw.			
Power Req.	100 - 250 Vac, 175 W (max), IEC-standard C14 plug.			
Computer Req.	Windows XP-SP3, Win7, 8, 10. Compatible with laptops.			



4-Wire Test Result Screen



External Terminals Control Screen



camiresearch.com/hipot

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