

Test to A620
Guidelines!

CableEye® HVX System for High Voltage Cable Testing

Fast, Accurate, Superb Graphics and Documentation

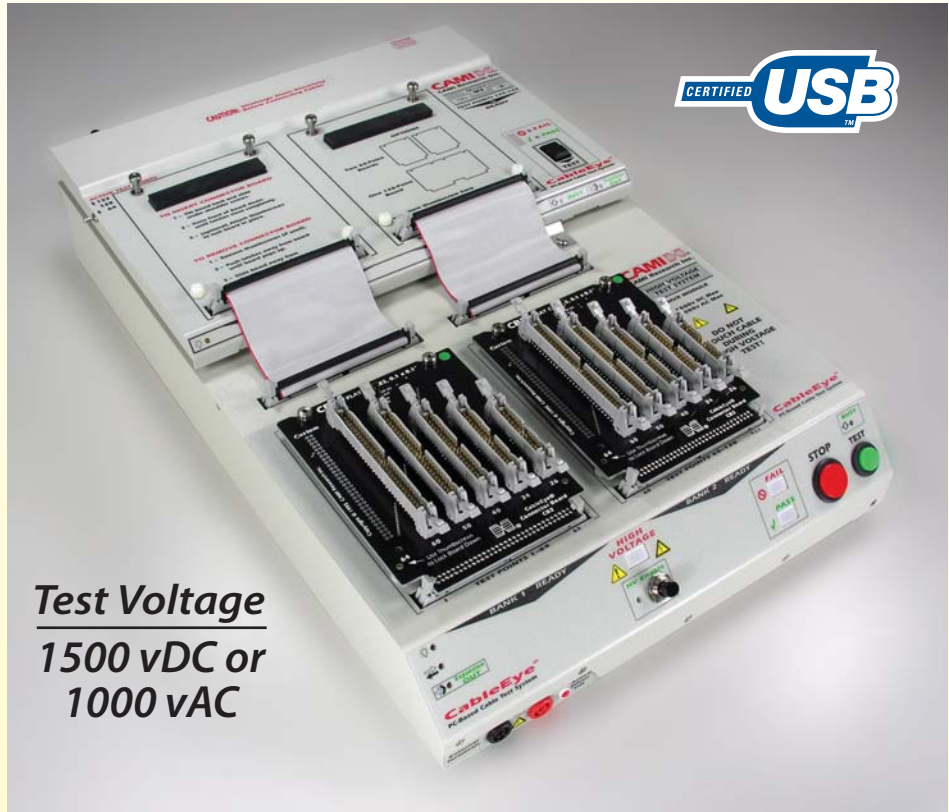
Item 829, CableEye HVX High Voltage Test System, 128 Test Points

Includes a 128-point fixture, electronics, and software, expandable to 512 test points by connecting HVX Expansion Modules (Item 828, each module adds 128 points). The CableEye M3U low-voltage tester (top deck) performs basic continuity and resistance checks. Set resistance thresholds for contact resistance down to 0.1 Ω , and for isolation up to 10 M Ω ; measure embedded resistors from 100 Ω to 1 M Ω with 1% accuracy, and lesser accuracy from 0.1 Ω to 10 M Ω ; measure diodes and resistor/diode combinations; automatically learn networks of diodes and resistors for comparison against electronic modules with similar networks. The high voltage test phase permits expanded testing for insulation resistance and dielectric breakdown. After checking for opens, shorts, miswires, and resistance limits, the HVX system will apply a user-selectable voltage from 10 v to 1500 vDC, or 10 v to 1000 vAC RMS, to each connection group in the cable. Current leakage detected during the high voltage test phase provides a measure of insulation resistance up to One Gigohm, and any leakage current exceeding a preset limit reveals the presence of moisture, flux, or other contamination on exposed contacts.

CableEye's high voltage test capability allows users to meet the industry-standard A620 guidelines for cable and wire harness testing. The system also produces archival-quality reports for each cable tested showing the test voltage, leakage current, and insulation resistance for each wire group, and clearly denotes PASS or FAIL at the top of the report.

The additional External Terminals, not found on competitive multi-point cable testers, permit basic insulation testing on chassis and individual components.

A TEST pushbutton with READY, PASS, and FAIL indicators permits one-button operation. Software includes scripting capability for fully-automatic production testing. Guided assembly and other software options available. Low-voltage cable measurement time less than 0.5 second. Industry-standard 64-pin dual-row latch headers easily interface to external test fixtures of your own design for custom applications. Also includes a remote control socket for an external footswitch (Item 714) or for a custom remote control to extend panel indicators, and a 10-pin probe socket. Rugged, 1/16"-thick aluminum case with scratch-proof Lexan surface for long life in an industrial environment. The price includes a CB15 board set (Item 745) or the purchaser's choice another board set of equivalent value, PC software, User's Guide, one-year warranty, one-year free tech support, one-year free software and database upgrades. *Ready to use.*



Test Voltage
1500 vDC or
1000 vAC

CableEye® Model HVX, 128 Test Points, Expandable



External Terminals for Component Testing

to extend panel indicators, and a 10-pin probe socket. Rugged, 1/16"-thick aluminum case with scratch-proof Lexan surface for long life in an industrial environment. The price includes a CB15 board set (Item 745) or the purchaser's choice another board set of equivalent value, PC software, User's Guide, one-year warranty, one-year free tech support, one-year free software and database upgrades. *Ready to use.*

CableEye® HVX Technical Specifications

	Low Voltage	High Voltage
Test Points Available	128, switch selectable to 64 or 128.	(same)
Expandability	Expandable to 512 TP in increments of 128 by adding optional HVAEX expansion modules.	(same)
Test Time	0.25 second with two resistance thresholds, 0.2 second with one threshold.	Depends on voltage, ramp rate, and test algorithm. Linear and "Quick Hipot" available
USB Interface	USB 1.1, Fast, M3U Module	USB 1.1, Fast, HVX Module
Resistance Thresholds	Two, each variable from 0.1 Ω to 10 M Ω	
Resistance Measurement	Measure embedded resistors with 1% accuracy from 100 Ω to 1 M Ω , lesser accuracy from 0.1 Ω to 10 M Ω .	Measure embedded resistors with 2% accuracy from 100 k Ω to 100 M Ω , and lesser accuracy from 10 k Ω to 1 G Ω .
Diode Measurement	Yes, learns automatically. Diode networks measured. Proper position and polarity reported. Forward voltage measured.	
Test Voltage	10v DC bidirectional	10 – 1500 vDC in Increments of 1 v 10 – 1000 vAC RMS in Increments of 1 v
Test Voltage Accuracy		DC: $\pm 2\%$, ± 1.5 v AC: $\pm 4\%$, ± 2 v RMS
Maximum Test Current	1.0 ma maximum	Settable, 50 μ A to 1.5 ma
Dielectric Withstand Range		DC: 25 μ A – 1.5 ma AC: 100 μ A – 1.5 ma
Dielectric Withstand Theshold Accuracy		DC: $\pm 5\%$, $\pm 5\mu$ A AC: $\pm 5\%$, ± 100 μ A
Dwell Time Range	1 μ S to 64 ms	10 ms – 300 sec, in increments of 1 ms
Insulation Resistance Measurement Range		DC: 2 M Ω – 1 G Ω at 1500 vDC, $\pm 5\%$ AC: 2 M Ω min (high depends on adapter leakage)
Calibration	Recomended yearly. May be necessary yearly by ISO certification requirements.	
Test Point Connectors	64-pin dual-row headers, 0.1" centers. Two per 128-point module.	
Remote Control Socket	miniDIN8 connector for footswitch, external control panel. Also remote HV Enable and Stop	
Power Requirement	100-250vAC, 65w maximum. IEC-standard universal C14 chassis plug.	
Weight	21 lbs (9.5 kG)	
Computer Requirements	Any Windows-capable machine running Windows XP or above. Compatible with laptop PCs.	
High Voltage Safety Features	Login privilege for HV set by system admin, HV Enable required at start of session, fast shutdown if 1.5 μ A maximum current exceeded, internal and remote HV "on" indicators.	
Warranty	One year parts and labor. Renewable yearly. Includes free software upgrades and tech support.	

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