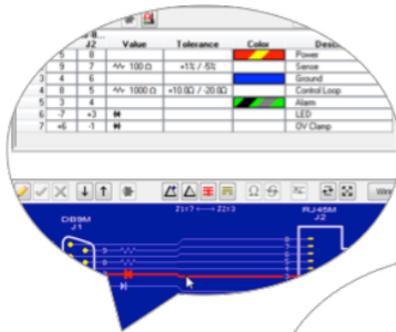
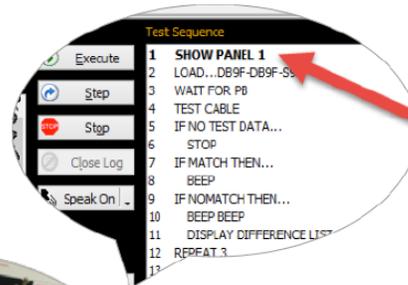


Cable and Harness Manufacturing

Five Qs to ask when selecting a Cable and Harness Tester



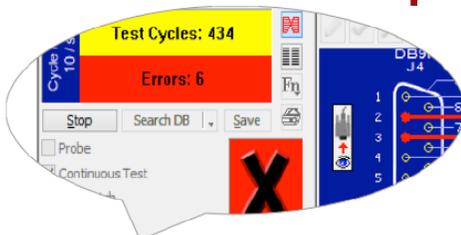
PC-Based?



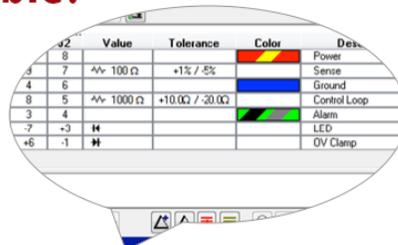
Simple Scripting?



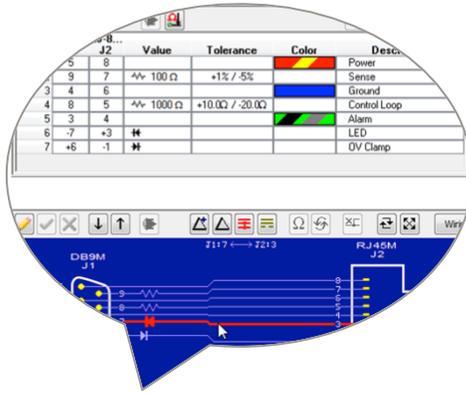
Expandable?



Fast Intermittence Test Rate?



Asymmetric Tolerancing?

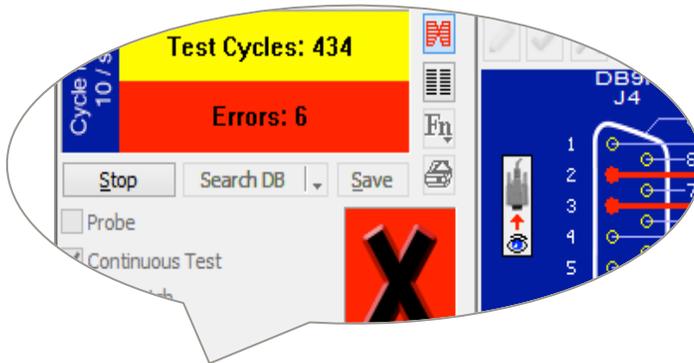


Is it PC-Based?

A PC-Based system is operated by an autonomous (rather than embedded) computer. Being independent of embedded computer architecture, the hardware is more robust, easier to upgrade, and has a longer life-cycle. Companies that require a flexible versatile test system, with dynamic graphic-rich GUI, archival data-logging, and ISO9000 quality documentation typically need to choose PC-based systems.

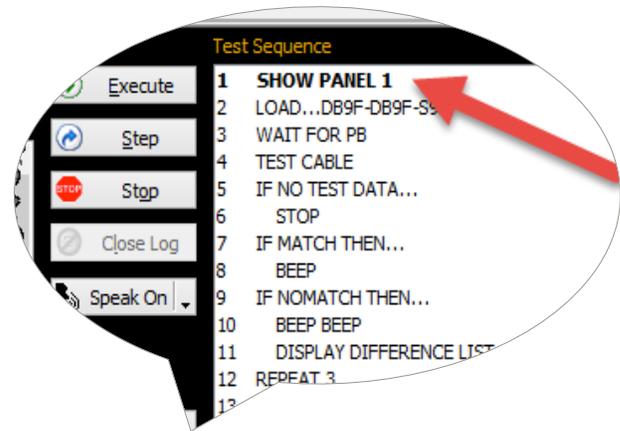
Is it expandable?

Look at least five years ahead to estimate how many test points you might ultimately need to have to test, and make sure that the tester you buy today is expandable - with ease. To avoid bench-top-creep, look for a system that stacks as it expands. For optimal versatility, and minimal operator retraining, check that the same system can be used to test either single cables or harnesses, and that if you ever need to add HiPot testing that the GUI is identical. Also, make sure that the system supports infinite connector types through numerous graphic templates - you don't want to be caught short with your next series of product releases - and that you have a choice of a wide range of standard connector boards. It would also be helpful for you to know that the tester supplier can support you with custom interface boards and adapters should the need arise.



Is there a mode for real-time screening for intermittent connections? At what rate?

Testing is incomplete without testing for intermittent errors: a cable can pass continuity testing, yet fail intermittence testing. This same cable, if installed, could cause a critical failure - perhaps resulting in loss of life. Testing for intermittent errors is carried out using a continuous rapid stream of short test pulses ... each one sweeping through the full set of test points. Known sometimes as the 'continuous' test, the test signal itself is sometimes mistakenly believed to be continuous. The higher the pulse rate, the more accurate the result as there is a higher statistical likelihood of 'capturing' the random moment of error. Testers that offer an intermittence test mode but at a slow rate will pass cables that fail on systems with high rates. Testers with the highest rates (and therefore most accurate results) will have USB interfaces. Some testers allow this rate to be adjustable, and can be set as fast as 11ms/cycle.



Does it permit automation scripting? In a simple, intuitive language?

If your operators are performing repetitive multistep tests on your cables, you'll want to automate the steps to improve productivity, and reduce operator error. Ideally, your tester will allow a simple, intuitive language option for you to prepare these scripts with no previous programming skills. These same testers will provide a shortcut icon on the touch screen leading the operator only to the test at hand and the features required for that test.

CableEye®

CableEye is an expandable and upgradable diagnostic and Pass/Fail Cable and Harness Test System that's PC-based. It's used for assembly, prototyping, production, and QC of standard or custom wire cables and harnesses, and comes in six models:

Low Voltage: M2U-basic, M2U

For diagnostic and Pass/Fail Testing - Find, display, log, & document: continuity (opens, shorts, miswires), and intermittent connections

Low Voltage: M3U, M3UH

For all of the above plus resistance (contact, isolation, embedded), and diodes (orientation, forward voltage, reverse breakdown).

Low Voltage and High Voltage: HVX, HVX-21

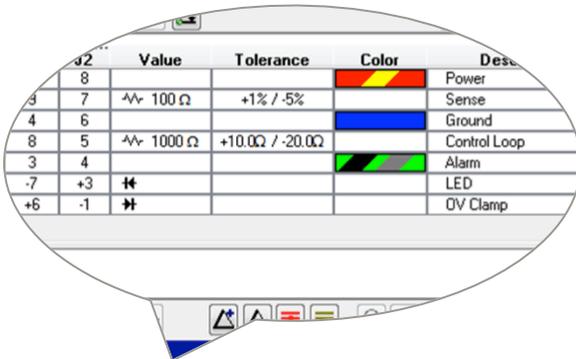
For all of the above plus HiPot (dielectric withstand voltage and insulation resistance).

Free 2-Week Trial

Experience CableEye first-hand. See how your own cables and connectors can be auto-detected and accurately represented on our graphic-rich, touch screen compliant GUI. Find cable problems fast, and understand why customers tell us "... we can not live without CableEye" (Kabelservice), declaring it the "... best, easiest to use, system" (Digital Video Products).

Limited Availability.

Schedule now by calling us at 1-800 776 0414 or visit camiresearch.com/get-demo.html.



	Value	Tolerance	Color	Description
8				Power
7	100 Ω	+1% / -5%		Sense
6				Ground
5	1000 Ω	+10.0Ω / -20.0Ω		Control Loop
4				Alarm
+3				LED
-1				OV Clamp

How flexible is tolerancing?

For greatest flexibility, and more intelligible reports, check whether the system allows tolerances to be optionally defined as % or absolute terms, as well as asymmetrically (e.g. +0%/-10%). Asymmetric tolerancing will allow you to pass more product than using more constrained test parameters (e.g. +10%/-10%).