

Co-Optive DC Parametric Test

HiLevel's DC³ test system is much more than a high-precision DC parametric measurement unit. By design, it can be integrated with your own logic stimulus equipment to perform DC *output* tests such as VOH and IOL, providing this capability with high pincount at the lowest cost. And for devices requiring DC and Continuity test capability only, the **DC³** is a very cost-effective Production Test solution. Now you can provide your own logic test resources running in co-optimive partnership with a high-precision MultiSite system for low-cost test. Contact **HILEVEL** to learn more.



DC³

Co-Optive DC³ Test

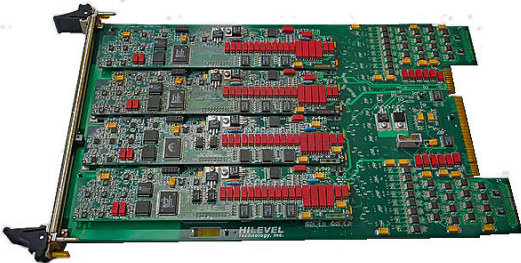
Price and Performance

The flexibility of a **HILEVEL** system brings new price/performance efficiency to the Tester-in-a-Head tradition, a concept created and introduced by **HILEVEL** in 1987. This tester is a superior cost-effective solution for DC test, especially in conjunction with the user's external logic sources. **HILEVEL**'s own proprietary tester ASICs provide the power and versatility so crucial in a Production Test system.



Multi-Site

Each DC PEB card provides DC test for 128 pins. The **HILEVEL DC³** chassis has slots for 16 DC boards (Up to 64 sites of 32 DC pins each). Available in two configurations of either 1,024 or 2,048 pins in a single chassis. Software assigns the desired number of sites among these boards; all pins in one site, or divide the pins into two sites, four sites, etc. The **DC³** system can provide internal power supplies for each site in the Multi-site mode.



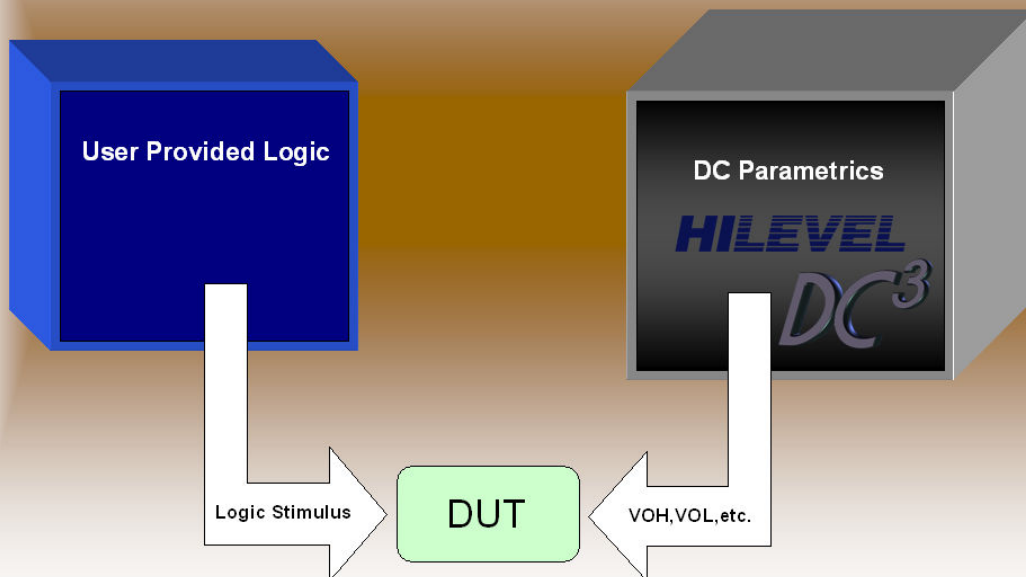
Rich in GUI functions for engineering, and all the capabilities that make a mass production tester fast, HILEVEL's new Symphony III software provides the tools for efficient test development.



Specifications

<p>MAINFRAME Maximum DC Pins (16 slots) Up to 2,048 DC pins in increments of 128 pins (128 pins per slot). Maximum sites: 64</p> <p>OTHER SLOTS System Basic Boards (2 slots) CRC Communications and Control PMP Calibration and Supplies</p>	<p>WORKSTATION AND SOFTWARE</p> <p>OS: Windows 7</p> <p>Automation: ACT (Automation C Tools), TexTest for ASCII test control, or HILEVEL AutoTest (GUI)</p> <p>Controller: PC workstation, Windows 7, and HILEVEL Symphony III software</p> <p>Interface: USB 2</p>
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DC³ Co-Optive Tester In partnership with *YOUR* logic





Specifications

DC PIN RESOURCES DC Drive Range: 0-5V Resolution: 20mV Current: Sink/Source $\pm 10\text{mA}$	All measurements referenced to DUT ground.
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DC PARAMETRIC MEASUREMENTS One DCPMU per 32 pins (4 per DC card) Force Voltage Range: -8V to +8V Resolution: 1mV Force Current Range: -150 mA to +150 mA Resolution & Accuracy: Range Dependent			Voltage Measurement Range: -8V to +8V Accuracy: $0.2\% \pm 2\text{mV}$ Current Measurement Range: $\pm 150\text{ mA}$ Resolution & Accuracy: Range Dependent
Current Ranges $\pm 200\text{ nA}$ $\pm 2\text{ }\mu\text{A}$ $\pm 20\text{ }\mu\text{A}$ $\pm 200\text{ }\mu\text{A}$ $\pm 2\text{ mA}$ $\pm 20\text{ mA}$ $\pm 150\text{ mA}$	Resolution 10 pA 100 pA 1 nA 10 nA 100 nA 1 μA 10 μA	Accuracy $\pm 0.4\%$ of Value + 40 pA $\pm 0.3\%$ of Value + 400 pA $\pm 0.2\%$ of Value + 4 nA $\pm 0.2\%$ of Value + 40 nA $\pm 0.2\%$ of Value + 400 nA $\pm 0.3\%$ of Value + 4 μA $\pm 0.4\%$ of Value + 40 μA	

ENVIRONMENTAL Power 220VAC single phase, Max 20A Max Weight 85kg approx. (16 cards installed) Manipulator Adapter Option: 10kg Dimensions (Test head only) H508mm x W438mm x D438mm Mounting Standard 19" rackmount Cooling 9 fans Temperature 60 to 80 °F (16 to 27°C)

TEST CAPABILITY Stand-Alone Continuity Opens/Shorts Leakage With User-Provided Stimulus VOH/VOL IOH/IOL (Plus all Stand-Alone listed above)
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Specifications

<p>MAIN DUT POWER SUPPLIES</p> <p>PS1 Range: 0 to 8V, 0 to 2A Resolution: 5mV, 10mA Accuracy: +/-15mV</p> <p>PS2 & PS3 Range: +/-16V, 0 to 1A Resolution: 5mV, 10mA Accuracy: +/-15mV</p> <p>PS4 Range: 0 to 3.7V, 0 to 4A Resolution: 5mV, 10mA Accuracy: +/-10mV</p> <p>Current Measurement Resolution Range dependent. Best resolution is 1 nA.</p>	<p>Multi-Site Supplies One Supply per each 32 Pins (site) Voltage Range: 0-8V Resolution: 5mV Accuracy: 15mV Current Range: 0-1A Resolution: 10mA Accuracy: see table below</p>
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<p>DUT SUPPLY MEASUREMENT RANGES One Measurement Unit per system Voltage Measurement Range: -16V to +16V, Resolution: 5mV, Accuracy: 0.2% ± 2mV</p>		
<p>Current Ranges</p> <p>± 200 nA ± 2 µA ± 20 µA ± 200 µA ± 2 mA ± 20 mA ± 200 mA ± 2 A ± 5 A</p>	<p>Resolution</p> <p>10 pA 100 pA 1 nA 10 nA 100 nA 1 µA 10 µA 100 µA 250 µA</p>	<p>Accuracy</p> <p>± 0.5% of Value + 100 pA ± 0.4% of Value + 500 pA ± 0.2% of Value + 4 nA ± 0.2% of Value + 40 nA ± 0.2% of Value + 400 nA ± 0.4% of Value + 4 µA ± 0.4% of Value + 40 µA ± 0.5% of Value + 400 µA ± 0.5% of Value + 1 mA</p>

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