Automated ESD Testing System: PinScan™

PinScan is the complete ESD testing solution. Operating in conjunction with the industry-acclaimed waveforms found in our PinPulse system, PinScan brings automation and comprehensive post-test analysis to the user at a market-leading price point. PinScan's automation redefines testing efficiency serving as a mechanically automated pin-to-pin testing apparatus delivering ESD events to user-defined pathways. The inclusive platform grants immediate insight, automatically identifying post-discharge failure points. The PinScan Test Manager software package centralizes the entire experience and makes operation a seamless process. The software features easy script-driven test preparation and data collection along with curve tracing and a post test report compilation. PinScan boasts the features and economy you require.

Standards Satisfied

ANSI/ESDA/JEDEC JS-001-2012, (HBM) MIL STD. 883E, (HMM) IEC6100-4-2, (MM) ANSI/ESDA S5.2-2012
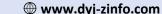
Applications

- Compatible package types: BGA, DIP, SOIC, and many more
- Relevant components: Integrated Circuits, Diodes, LEDS, Optoelectronics, etc.
- Relevant Processes: R&D, Quality Assurance, Process Validation

Key Features

- Automated testing significantly reduces hands on testing time and errors.
- ESD testing of devices from 2 to 128 Pins
- User-friendly test software facilitates setup, testing and analysis
- IV Curve Tracing with PinCheck™ makes identifying failure points easy.
- Test reports automatically compiled and available for download
- 3 built-in ESD Models (HBM, HMM, MM)
- Flexible adapter board system enables testing wide variety of devices

Specifications

Mechanical:

Construction: Metal enclosure, docks atop 9910.
Size: 17"W x 5"H x 12"D
Weight: 23 lbs.

Controls & Connections:

Power: 90-260 VAC via IEC connector on rear panel
ON/OFF: Rocker switch on front panel
Indicators: Red & Green LEDs on front panel indicate status.
Communications: USB connector on rear panel.

Interface:

Waveform connection: Cables supplied for all supported ESD models
HBM Cable Pair, Red, Black, 6" (152mm)
MM Cable Pair, Yellow, Green, 6" (152mm)
HMM Cable Pair, Blue, Orange, 6"(152mm)
Device connection: DUT stage providing connection to 128 circuits. PinScan interface is dual 64-pin ZIF sockets, .100" pin spacing.

Included Adapter boards:
accommodate the user's device:

- General purpose DIP & SIP device adapter board, 2 to 40 pins.
- General purpose 16-pin SOIC device adapter board

Custom Adapter Boards are available to connect to any device using industry standard sockets: DIP & SIP specific packages, SOIC. Gull-wing, J-lead, BGA packages, Card-edge devices and assemblies, multi-connector assemblies.

Computer:

A laptop with Windows 10 and ETS PinScan Test Manager loaded is supplied with the system. The system uses folder C:\ETS\ as a destination for all scripts and test results.

Software: ETS PinScan Test Manager

- Communicates with PinScan hardware and 9910 PinPulse via USB,
- Allows creation and storage of scripts describing the test,
- Conducts the test per script,
- Collects results and saves reports,
- Retrieves previous tests for display,
- Performs curve-trace before and after each discharge,
- Analyzes curve traces to spotlight any ESD event,
- Provides convenient text-format reports and screen shots.

Warranty: One (1) Year – Parts & Labor

To ensure consistent and valid results annual calibration is required
Contact: service@ets2.com for assistance