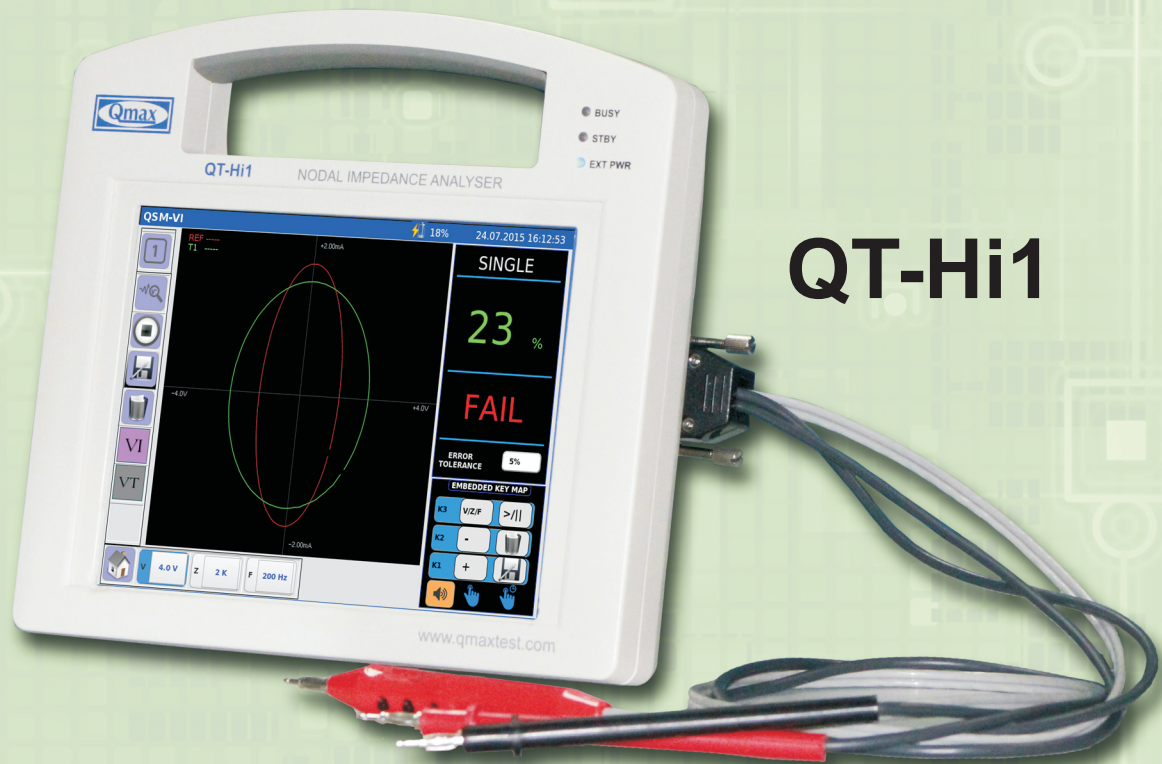


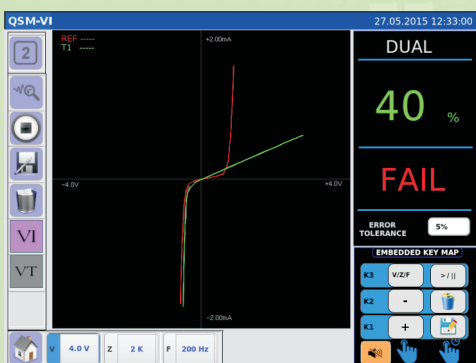
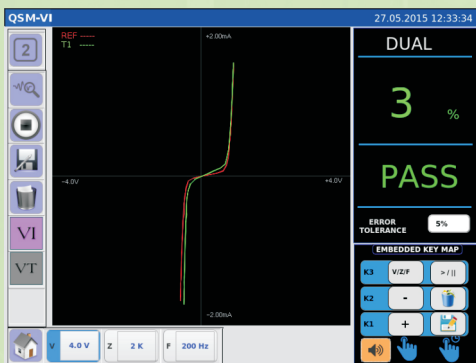
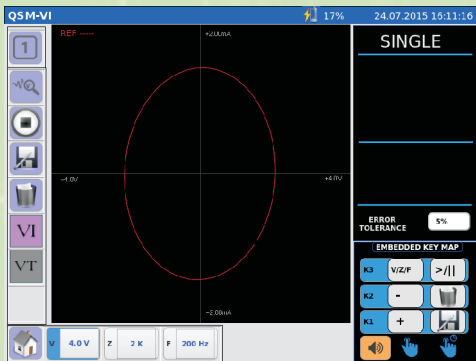
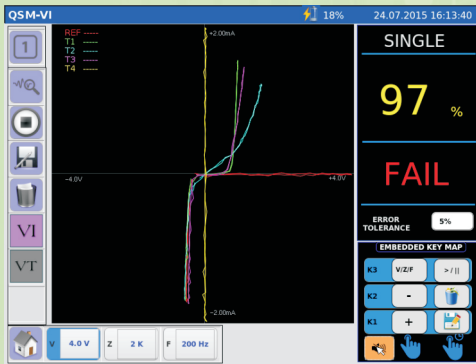


# NODAL IMPEDANCE ANALYSER



QT-Hi1

- ★ Unique Trouble-shooting Tool
- ★ Nodal Impedance Test
- ★ Dual Probe Concept
- ★ Learn & Compare Facility
- ★ BGA Solder check
- ★ In-built Color LCD TFT Screen
- ★ Truly Portable Battery operated unit



Current generation PCBs are complex in nature and are populated with more of proprietary devices. In most cases, the schematics and internal functional details are unavailable for third party maintenance personnel. As a result diagnosing PCB faults using conventional test instruments such as multi-meter or oscilloscope, which are normally found in repair shops, becomes a difficult task. Unlike multi-meters and scope, which are only measuring electrical parameters, this device injects a sine wave of selected frequency with a selected source impedance and amplitude into an electrical node and measures the resultant voltage and current and plots it as voltage Vs Current curve. This curve can be learnt from a device pin of a good device and compared with a suspect device's pin to see if there is a fault. Most failures in Electronic or Semi-conductor devices happen on the periphery of the device on a I/O pin and internal wafer is often quite intact. This kind of failures can be easily detected by VI-Curve or nodal impedance check.

QT-Hi1 – Nodal Impedance Analyser can detect a change in boards/devices pin characteristics due to a damage caused by external forces such as lightning, static discharge, short circuit / over loads or internal I/O pin damages. Also any change in discrete component values can be easily spotted. Up to four VI traces can be learnt on the screen for comparison in different colours, namely Green, Cyan, Magenta and Yellow. The system uses probe & reference for comparison of each node (or) through Optional Internal MUX adaptor for Clips and edge connectors.

The Stimulus Sine wave frequency ranges from 1Hz to 100KHz, a voltage range of  $\pm 0.2V$  to  $\pm 13V$  and a source impedance ranging from 10 Ohms to 100K Ohms with limited current to  $\pm 100mA$ .

Qmax reserves the right to change the system specifications without prior notice; Qmax is the registered trademark of Qmax Group; QSM is the innovative signature method developed by Qmax.



— where standards are set; not matched.

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