

## 1.5 Vibration & Functional Test Platform VIT-1

### Features

- ✦ Integrated Platform solution for simultaneous vibration stimulus and functional test of electronic boards and assembled devices
- ✦ Vibration support frame with fixing system for up to three DUTs including a cable harness to the measurement instrumentation
- ✦ Payload up to 8 kg. Vibration frequencies from 0 to 6 kHz
- ✦ Acceleration sensor
- ✦ Optional PXI chassis for functional test instruments required
- ✦ Noise level less than 30 dB
- ✦ Software application to setup the parameters of the vibration test cycle
- ✦ Mains Power Single Phase 230V 50-60Hz

One single compact and low-noise test platform, easy transportable, integrated in the system is one high performance electric shaker and power driver, Industrial PC Controller, UPS, Test and Power Management Unit, and an optional PXI chassis to install additional modular instrumentation needed for DUTs functional tests.

The vibration DUT fixing frame is constructed out of light allied metal and has three pre-cabled receptacles for fixing the DUTs using quick fixing adaptors. Custom fixing adaptors can easily be build to adapt to different DUTs

The platform has been ergonomically designed to fit perfectly in automated production lines.

The standard software is based on National Instruments TestStand®, and includes the vibration shaker control and all the vibration test parameters setup. The user can easily parameterize the test for particular DUT needs.



### General specifications

- ✦ Sine force
- ✦ Random force
- ✦ Shock force
- ✦ Frequency Range
- ✦ Maximum acceleration
- ✦ Maximum displacement
- ✦ Cooling amplifier
- ✦ Cooling Shaker
- ✦ Power requirements

18.1 kg pk  
 7.7 kg rms random  
 34 kg pk shock  
 DC to 6,500 Hz  
 40 g pk, bare table  
 20 g pk, 0.4 kg load  
 6.7 g pk, 2 kg load  
 25.4 mm pk-pk, bare table  
 Forced air  
 Vacuum  
 230V 50-60Hz 1,000 VA

### ORDERING INFORMATION

Test Platform VIT-1 and accelerometer  
 Vacuum cooling system option

### P/N

VIT10000  
 VIT1SVC0

## Dimensions

