

COMPACT CUBE

Product Overview

The need for small size, flexibility and integration in most manufacturing environments is developing a new idea of automated test systems or ATE. For this reason, SEICA has created the new Compact CUBE: it is the smallest of the Compact family, but with great potential in the different operational environments

Specification



The Compact CUBEtest system uses the VIP platform (ACL-VIVA), whose main feature is the possibility to deliver the best integration of technology and easiness of use. It is possible to combine the following test solutions: ICT (In Circuit Test), Functional test, On-board programming and Boundary-Scan test. This is possible thanks to the cutting-edge measurement system (based on ACL proprietary module) and to the VIVANEXT>management software. The ACL module contains the internal instruments providing the drive and sense capabilities. These are optimized to provide increased accuracy and the possibility to program drivers. The communication to the Main PC via optical fiber cable minimizes sensitiveness to external disturbances. The user can benefit from an intuitive graphical software interface designed for compiling and running functional tests: Quick Test.



Characteristics

The “Flexibility” of a Truly Open and Customizable Test Platform

- *In the ATEs of the Compact CUBE, the concept of “open system” is extensively available. The new VIVA NEXT> language allows a perfect integration between VIVA NEXT> and the NI LabView™/TestStand™ environment. The VIVANEXT> diversities can be easily linked to TestStand™ variants. They are handled by the Variant Manager. A new LabVIEW™ library is used to control the SEICA instruments: it is the connection between VIVA NEXT> and the NI world. An original innovation is My View, which is a VIVA NEXT> software component that allows you to create a customizable and localizable MMI (Multi Media Interface). The user can read from and write to the MyView controls at runtime from the TestStand sequence. Furthermore, the user can run python .NET code (IronPython) easily directly from the TestStand sequence. On the top of the machine, it is possible to use a customizable interface.*

Different Configurations for an Enhanced Implementation

- *The digital part of a Compact CUBE tester can be configured to meet different requirements, and to achieve the best performance. There are four different configurations: Analog channel connection: if the three available slots are occupied by 3 S64 boards, it is possible to manage 192 analog channels. Direct digital channel connection of the F50 board: the system resources available are fully digital if the three available slots are occupied by three F50. Hybrid channels by combining F50 and S64 boards: this solution will make available on test points all of the digital and analog resources of the Compact CUBE tester.*

The “Compactness” of a Truly Integrated Solution

The Compact CUBE best fits your efficiency needs in small and customizable space.

- *In under 68 cm in height, Seica has integrated 12 rack units. Seven of them are used by the system; this means that there are 5 rack units, which are divided in 3+2 rack units, that can be used for other instruments.*
- *The Compact CUBE has been designed to provide an immediate and easy in-line automates integration, thank also to the four pivoting wheels to move it smoothly.*
- *The instruments contained in the Compact CUBE are easily removable thanks to the front and rear access to the system: this option guarantees a rapid maintenance.*

Industry 4.0

- *Information and the technology needed to collect and analyse data, is key to the successful digitalization of the manufacturing process, which is at the heart of the Industry 4.0 concept. The Compact line has all of the capabilities needed for implementation in any Factory 4.0 scenario, providing the possibility to plug in any proprietary or third party information system to achieve the desired goals.*

