



COMPACT NEXT LINE

COMPACT CUBE NEXT

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 NEXT** SERIES: it is the smallest of the **COMPACT** family, but with great potential in the different operational environments.

ATE RESOURCES – ICT AND FUNCTIONAL TESTING

Like any other **Seica** solution, the **COMPACT CUBE** test 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)
- On-board programming
- Functional test
- Boundary-Scan test

This is possible thanks to the cutting-edge measurement system (based on ACL proprietary module) and to the **VIVA** 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**.

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 **VIVA NEXT** 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.





VIVA NEXT is available in a 32 and 64 bit version with a new graphical interface and a guided environment for an easy and quick test program creation. It is fully integrated with NI-VISA drivers and with third-party test management software.



VIVA>NEXT> SOFTWARE AND MES INTEGRATION OPTION

Like any other Seica solution, the COMPACT CUBE NEXT test system, uses the VIVA>NEXT platform, which provides two authentication methods managed through the Seica proprietary graphic editor MY VIEW:

1. the standard Windows authentication
2. the new 'VIVA User Authentication' through which the customer can select the user with different privileges.

Since the customer manages the production and material flow through the MES software, the Seica COMPACT CUBE can be connected to the customer MES (Manufacturing Execution System). Through its proprietary Adapter, Seica can integrate all customer MES platforms.

INDUSTRIAL MONITORING & INDUSTRY 4.0

The Information and technology needed to collect and analyze data, is key to the successful digitalization of the manufacturing process, which is at the heart of the Industry 4.0 concept. Special attention needs to be given to energy savings and predictive monitoring of events. Canavisia, a Seica Company, introduces ShoeBox, a noninvasive control unit that allows to control energy consumption and to reduce costs and wastes through Monitoring of consumption, Data analysis, Intervention planning.

TECHNICAL TABLE

System Architecture	VIP Platform - VIVA NEXT>
PC	internal to the system
Main features integrated tools:	3 AC/DC independent drivers with Signal generator programming AC/DC current and voltage meter 2-channel Counter/timer up to 10 MHz Integrated Pull-Up/Pull-Down resistors 4 bi-directional digital channels
Analog channels scalability	192
Digital channels scalability	96
Hybrid channels scalability	Up to 64
Power I/O integration	Yes
Power supply scalability	1 power supply integrated (0/30 V, 0-/1.2 A)
User (programmable in Voltage and Current)	User external power supply optional
Scalability for functional test	Yes
On-Board Programming Capability	Yes ⁽¹⁾
Boundary Scan test option	Yes
Optical inspection option	No
Integration with third-party instrument	Yes
Receiver fixture ⁽²⁾	Not included
Compressed air ⁽³⁾	Not required
UPS	Not included
AC protections (PC-SYS)	Yes
Front and rear fans	Yes
Dimensions and connections	Width: 600 mm Height: 680 mm Depth: 660 mm 19" rack compatible
	Noise: not exceeding 70 dB
	Power supply: 230 VAC -10% +15%, (16 A)
	0-60 Hz single phase

¹ In this case, the channel capability changes.

² Can be included as an option.

³ Air not required unless receiver option selected and requested

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Seica reserves the right to change the technical specifications without notice

LabView™/TestStand™ are
National Instruments software