

**SIEMENS**



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# The Viva-ProE System

Discover improved workflow and workstation efficiency—plus greater ease of use—all in one powerful bench-top system.

Answers for life.



# Compact footprint. Compact strength.

Since pioneering drugs-of-abuse testing (DAT) in 1972, Siemens has helped nurture and expand the industry by striving to create the most cutting-edge and sophisticated technologies possible. It's a pursuit that continues to this day—a culmination of pairing our commitment to innovation with more than forty years of experience. We work to transform and deliver innovative reagents and drug-testing technologies for an industry whose fast-paced environment continues to evolve and move towards workspace consolidation and streamlined testing and processes.

Powered by EMIT® technology, the Viva-ProE™ System utilizes advanced instrumentation and intuitive integrated software to help mid-volume drug-testing laboratories optimize efficiencies, workflows, and workspaces. With onboard waste and water storage, a touchscreen-driven operating system, and full sample-testing capacity, the Viva-ProE System has been designed to perform at the highest levels of analysis—**all within a small, bench-top footprint.**



# New design. New efficiencies.

## All your drug testing in one bench-top analyzer.

The Viva-ProE System with EMIT technology provides proven performance in a reliable, next-generation, bench-top system. It's big performance without big inconvenience.



### Streamlined Workflow

- 1 133 EMIT tests/hour
- 2 50 sample onboard capacity
- 3 12 EMIT methods onboard
- 4 10 open channels
- 5 Results in as little as 10 minutes



### Comprehensive Testing Platform

- 6 Semi-continuous sample loading and true random access capability for routine and STAT samples
- 7 Common reagent system
- 8 Barcode sample identification
- 9 Liquid, ready-to-use reagents onboard



### Innovative Technologies

- 10 Intuitive touchscreen interface
- 11 Next-generation software
- 12 Onboard waste and water storage
- 13 Semi-permanent cuvette rotor with automated onboard washing
- 14 Consolidated drug-testing menu for drugs-of-abuse and validity testing, serum toxicology, and therapeutic and immunosuppressant drug monitoring
- 15 Peltier cooling for reagent stability and performance







# Minimal size. Minimal turnaround time.

The Viva-ProE System is a comprehensive drug-testing platform housed in a self-contained, compact design. With a complete menu of proven EMIT assays to help make confident decisions with minimal turnaround time, it's been precisely engineered to help meet all your drug-testing needs.



## Proven Assay Technology

Used by the largest labs to the smallest facilities, EMIT technology is the standard in assay performance. And with a full spectrum of EMIT assays, the Viva-ProE System is founded on this historic dependability.



## Onboard Touchscreen Command Center

To further aid in improving laboratory efficiencies, the Viva-ProE System is centered around a touchscreen command center, utilizing next-generation software, an intuitive icon system, and easy checklist guides to assist users in their day-to-day workflow. In addition, an onboard Operator's Manual provides instructions for reagent inventory management and general troubleshooting.



## Complete Sample Area

The Viva-ProE System comes with a full onboard positive sample ID (PSID), which provides full sampling power without the full footprint. Fifty sample positions and 12 auxiliary positions help to enhance true walkaway time while reducing error probability. Unique sample and reagent probes also bring built-in technologies, including liquid-level sensors, crash protection, and precision monitoring, to improve overall operation and help deliver fast, reliable results.

# Technical Specifications

With a full-spectrum offering of features and solutions, the Viva-ProE System is engineered to help produce real-world benefits in a small, easy-to-use design.

## Throughput

- Up to 133 EMIT tests per hour with two reagents
- Up to 65 EMIT tests per hour with three reagents

## Reagent System

- EMIT reagent rotor with 13 reagents on board
- The reagent rotor compartment is cooled to 8–12°C (absolute up to 25°C ambient temperature)
- Aspirated reagents are heated, with level detector and integrated stirrer
- Peltier cooling for efficient reagent use

## Sample System—providing semi-continuous loading

- Sample rotor contains:
  - 50 positions for barcoded tubes
  - 12 positions for non-barcoded tubes
  - 1 blank and 1 washing position
- Primary tubes (13 mm or 16 mm OD)
- Positions can contain 5 mL or 10 mL primary tubes or sample cups
- Sample probe with level detection and integrated stirrer

## Cuvette Rotor

- Semi-disposable rotor with 48 cuvettes
- Minimum measuring volume 200 µL
- Measuring temperature 37°C, controlled by Peltier elements

## Washing Units

- Cuvette rinsing with 4 x 500 µL of water:
  - The unit is equipped with liquid sensors
  - Waste is separated into diluted and concentrated waste
  - Cuvettes are dried before use

## Photometric Range

- Absorbance -0.1 to 3.0

## Analytical Modes

- Kinetic measurement with linearity check
- Bichromatic end-point measurement, with or without bichromatic reagent blank and/or sample blank correction
- Two point measurement
- Automatic rerun with sample reduction

## Calculation Modes

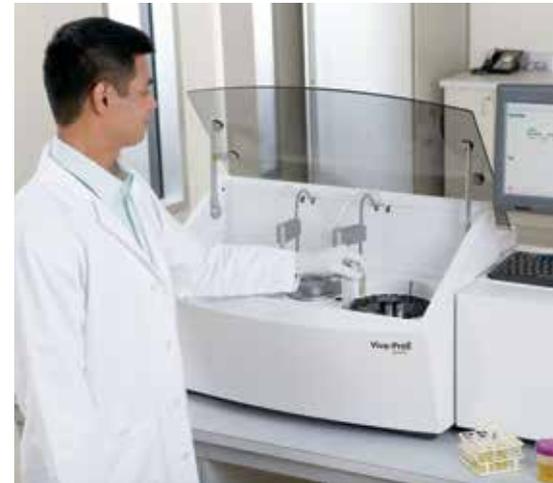
- Linear regression
- Modified cubic spline
- Syva® 4-parameter logit log

## Quality Control

- Up to 6 controls per parameter (up to 120 controls programmable per rotor configurations)
- Westgard rules
- Levey-Jennings plots

## Dimensions

- Width: 125 cm/49.2 in
- Depth: 62 cm/24.4 in
- Height: 75 cm/29.5 in (excl. monitor)
- Weight: approx. 93 kg/205 lbs (excl. monitor arm and panel PC)



The Viva-ProE System combines proven drug-testing performance in a reliable, next-generation bench-top instrument. From easy-to-use technologies to full-spectrum, proven assay libraries, our goal is to bring labs the flexibility they need to meet the challenges of today and tomorrow. At Siemens, we're continuously building solutions for a drug-testing environment that is ever changing.

Please contact your Siemens representative to learn more about how the Viva-ProE System can help meet your drug-testing needs.

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

EMIT, Syva, Viva-ProE, and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks are properties of their respective owners.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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## Viva-ProE™ System

### Technical Specifications



#### Throughput

- Up to 133 EMIT® tests per hour with two reagents
- Up to 65 EMIT tests per hour with three reagents

#### Reagent system

- EMIT reagent rotor — with 13 positions for 14 mL bottles and 13 positions for 28 mL bottles
- All positions in both rotors can be assigned as R1, R2, and R3
- The reagent rotor compartment is cooled to 8–12°C (absolute up to 25°C ambient temperature)
- Reagent volumes:
  - Reagent 1 volume 110–399 µL
  - Reagent 2 volume 10–289 µL
  - Reagent 3 volume 10–289 µL
- Heated, with level detector and integrated stirrer

#### Sample system—providing continuous loading

- Sample rotor contains:
  - 50 positions for barcoded tubes
  - 12 positions for tubes without barcodes
  - 1 blank and 1 washing position
- Primary tubes (13 or 16 mm OD)
- Positions can contain 5 mL or 10 mL primary tubes or sample cups
- Sample volume 1 – 30 µL per test, programmable in steps of 0.1 µL
- Sample probe with level detection and integrated stirrer

#### Pipetting system

- Flex Fluidics syringes
- Reagent syringe 1000 µL
- Sample syringe 100 µL

#### Cuvette rotor

- Semi-disposable rotor with 48 cuvettes, path length 6.8 mm
- Minimum measuring volume 200 µL
- Measuring temperature 37°C controlled by Peltier elements

#### Washing units

- Cuvette rinsing with 4 x 500 µL of treated water:
  - The unit is equipped with liquid sensors
  - Waste is separated into diluted and concentrated waste
  - Cuvettes are dried before use

#### Light source

Quartz-iodine lamp 12 V – 20 W

#### Wavelength range

- Automatic wavelength selection by an 8-position filterwheel (340, 415, 505, 546, 570, 600, 660, 700 nm)
- Half bandwidth 8 to 12 nm

#### Photometric range

Absorbance -0.1 to 3.0

# Viva-ProE System Specifications

## Ambient temperature

- 15–32°C
- Relative humidity 15–85% (non condensing)

## Calculation modes

- Linear regression
- Modified cubic spline
- Syva® 4 parameter logit log

## Quality control

- Up to 6 controls per parameter (up to 120 controls programmable per rotor configuration)
- Westgard rules
- Levey-Jennings plots

## Power requirements

- Line voltage 110–240 V
- Line frequency 50/60 Hz
- Installation category II (in accordance with the IEC664)

## Computer

- CPU: Intel Celeron M 575 2 GHz
- Touchscreen monitor: 15.6 inch, 1366 x 768 pixels
- Ports: 1 serial, 4 USB, and 1 ethernet port

## Printer

- The application supports one printer
- Most printers supported by WINDOWS can be connected

## Barcode reader

The Viva-ProE™ is equipped with an internal barcode reader to read barcoded sample tubes. An optional hand-held barcode reader is available.

## Languages

English, French, German, Italian, Spanish; others on request

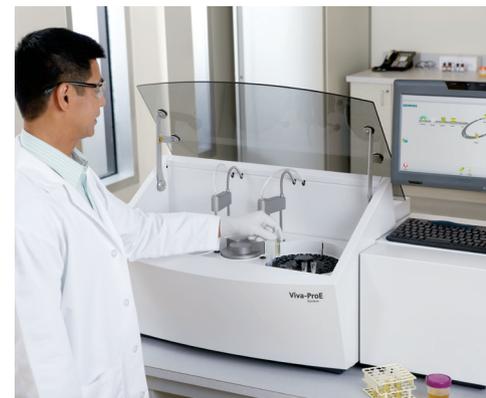
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