# Vitros® XT 7600 integrated system[1] specifications

### Measurement principle:
- Colorimetric/rate
- Potentiometric (direct ISEs)
- Immuno-rate
- Turbidimetric
- Enhanced chemiluminescence

### Reagents:
- No preparation[2], no mixing or reconstitution required for integrated reagent packs, signal reagent, universal wash reagent, Electrolyte Reference Fluid (ERF), or Immuno-Wash Fluid (IWF)
- Onboard stability up to 84 days
- Shelf life stability up to 18 months from date of manufacture[3]
- **Onboard test capacity:**
  - Up to 11,440 tests (up to 16,780 tests with XT MicroSlides)
  - 150 reagent positions:
    - 89 MicroSlide cartridges (18, 50, 60, 100, or 120 tests cartridge)
    - 31 MicroWell packs (50 or 100 tests/pack)
    - 30 MicroTip packs (50, 75, or 100 tests/pack)

### User-defined channels:
- 20 available (MicroTip)

### Consumables:
- VersaTips, MicroTips, cuvettes, signal reagent and universal wash reagent can be replenished without interrupting system operation. Reagents replenished without interrupting incubation. ERF and IWF can be replenished when all MicroSlides have completed
- **Onboard capacity:**

| | |
|---|---|
| – VersaTips: | 2000 |
| – MicroTips: | 384 |
| – Cuvettes: | 348 |
| – Signal reagent: | 3 packs |
| – Universal wash reagent: | 5 liters |
| – ERF: | 800 drops |
| – IWF: | 300 drops |

### Calibration:
- Up to 25 lots per assay with automatic lot switching
- MicroSlide and MicroTip assays stable up to lot change
- MicroWell stable for up to 28 days
- Random-access calibration
- Bar-coded calibrators for MicroSlide and MicroWell assays

### System startup:
- 24-hour ready mode
- No manual primes, purges, washes or tubing maintenance
- No daily calibrations or calibration checks
- Automatic integrated prime/purge for MicroWell assays

### Time for single result:
- **Potentiometric:** ~2.5 minutes
- **Colorimetric:** ~6 minutes
- **Immuno-rate:** ~8 minutes
- **MicroTip:** ~8-16 minutes
- **MicroWell:** ~16-73 minutes
- Real-time results data stream to LIS available

### Throughput*:
- **Maximum theoretical throughput without XT slides:** up to 945 tests per hour (TPH)
- **Maximum theoretical throughput with XT slides:** up to 1,320 TPH
- Actual throughput will vary by test mix and sample workflow

### Sample types:
- Serum, plasma, urine, CSF, whole blood and amniotic fluid

### Sample volume:
- **Per assay:** 2–80 uL
- **Dead volume:** minimum 35 uL

### Sample capacity:
- Continuous load and unload
- 80 samples in universal sample trays
- 10 samples in dedicated STAT lane

### Sample and reagent management incorporating Intellicheck® Technology:
- Single-use tip metering verifies sample aspiration and dispense, eliminates carryover and addresses cross contamination concerns
- Clot, bubble, low and high viscosity, thin layer fluid and short sample detection
- Save-the-sample clot/bubble management
- Liquid level sensing
- MicroSlide, MicroWell and cuvette dispense verifications
- Reagent and diluent aspiration and dispense verifications
- Onboard IntelliReport provides complete traceability and documentation of result quality
- Detection of hemolysis, icterus, and turbidity

*Theoretical maximum. Individual results may vary.

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### Sample containers:

- **Universal sample trays accommodate:**
  - 5 mL, 7 mL, 10 mL collection tubes
  - Micro-collection containers
  - Vitros microsample cups and 0.5 mL and 2.0 mL cups

### Sample bar code identification:

- **Autodiscriminates by simultaneously recognizing all standard symbologies:**
  - Code 128
  - ISBT 128
  - Code 39
  - Codabar
  - Interleaved 2 of 5

### Dilution capabilities:

- Auto reflex dilution
- Operator requested dilution
- Onboard dilution calculation

### Automatic reflex testing (based on user-configuration):

- Reflex to different assays
- Reflex to the same assay

### Operator interface:

- Color-coded graphical user interface
- Ergonomic flat, low-glare, LCD, 17-inch touchscreen monitor
- Numeric keypad on monitor
- Detached keyboard for maximum flexibility
- Onboard documentation and animated Help (V-Docs)
- Onboard maintenance documentation

### Data storage:

- Read/write SSD drive for data input and archiving
- USB flash drive (memory stick) capabilities
- 5,000 sample programs
- 25,000 samples with ability to archive and retrieve through CD-ROM or USB flash drive

### System dimensions:

- **Width:** 2.79 m/110 inches
- **Depth:** 0.89 m/34.9 inches
- **Height:** 1.73 m/68 inches
- **Weight:** 1062 kg/2360 lb

### Power:

- **Line voltage:** two dedicated 20 amp power lines or one dedicated 30 amp power line with UPS, nominal 200-240V AC
- **Line frequency:** 47-63 Hz

### Environment:

- **Operating temperature:** 15°-30°C/59°-86°F
- **Ambient relative humidity:** 15%-75% RH
- **Altitude:** up to 2,439 m/8,000 feet
- **Plumbing:** No water or drain required; self-contained onboard waste management eliminates special requirements for off-board plumbing

### Communications:

- **Laboratory information system (LIS):**
  - Bidirectional interface for ASTM and HL7 protocols
  - Broadcast download and Host Query
  - Results can be uploaded individually, as a group, or as an entire sample
- **Laboratory automation system (LAS):**
  - AT ready at launch
  - 2 LAS interfaces, point-in-space
- **Ports:**
  - RS 232 serial ports (for LIS and LAS)
  - USB ports (for printers)
  - Ethernet ports (for E-Connectivity® Technology, LIS)

### E-Connectivity interactive system management:

- Using the facility's DSL or other internet connection, SSL technology establishes a secure connection between system and QuidelOrtho technical support to enhance troubleshooting and increase uptime
- Automatic two-way data exchange to automatically send and retrieve data
- Automatic download of system software updates
- Remote connectivity provides the ability to enable remote diagnostics and remote control operation
- Enhance uptime with predictive alerts

### Acoustic noise

- **Idle:** 60 dBA
- **Operating:** 65 dBA

1. Availability is subject to local regulatory requirements
2. Except caffeine
3. Gentamicin: 24 months; Caffeine: 36 months
4. For %Hemoglobin A1c and red cell folate

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EMEA PR - 04177

August 2023