

# VITROS® 5600 Integrated System<sup>1</sup>

## Specifications Sheet

VITROS<sup>System</sup> 5600  
Integrated

- **Measurement Principles:**
  - + Colorimetric/Rate
  - + Potentiometric (direct ISEs)
  - + Immuno-rate
  - + Turbidimetric
  - + Enhanced Chemiluminescence
- **Reagents:**
  - + No preparation,\* 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\*\*
  - + Onboard Test Capacity:
    - Up to 11,440 assays
    - 150 reagent positions:
      - 89 MicroSlide Cartridges (18, 50, or 60 tests/cart)
      - 31 MicroWell Packs (50 or 100 tests/pack)
      - 30 MicroTip Packs (50 or 100 tests/pack)
- **User-Defined Channels:**
  - + 10 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 and typical replenish frequency:

• VersaTips:	2000	24 hours
• MicroTips:	384	24 hours
• Cuvettes:	348	24 hours
• Signal Reagent:	3 packs	48 hours
• Universal Wash Reagent:	5 liters	72 hours
• ERF:	800 drops	24 hours
• IWF:	300 drops	72 hours
- **Calibration:**
  - + 25 lots per assay may be calibrated 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
- **Sample Types:**
  - + Serum, Plasma, Urine, CSF, Whole Blood\*\*\*, Amniotic Fluid\*\*\*\*
- **Sample Volume:**
  - + Per assay: 2-80µL
  - + Dead volume: minimum 35µL
- **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 Verification
  - + Reagent aspiration and dispense verifications
  - + Onboard IntelliReport provides complete traceability and documentation of result quality
- **Sample Containers:**
  - + Universal Sample Trays accommodate:
    - 5mL, 7mL, 10mL collection tubes
    - 1.5mL micro-collection containers
    - VITROS® microsample cups and 0.5mL and 2.0mL 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
  - + Off-board 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 disk 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/109.7 inches
  - + Depth: 0.85 m/33.5 inches
  - + Height: 1.64 m/64.5 inches
  - + Weight: 1062 kg/2340 pounds
- **Power:**
  - + Line Voltage: 2 dedicated 20 amp power lines or 1 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 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®, LIS)
- **e-Connectivity® Interactive System Management:**
  - + Using the facility's Internet connection or DSL, VPN establishes a secure connection between System and Ortho Clinical Diagnostics 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

Ortho Clinical Diagnostics  
a *Johnson & Johnson* company