



# Atellica IM 1300 Analyzer and Atellica IM 1600 Analyzer Technical Specifications

## Atellica Solution

Flexible, scalable, automation-ready immunoassay and clinical chemistry analyzers engineered to deliver control and simplicity so you can drive better outcomes

Experience the power of the Atellica® Solution, featuring patented bidirectional magnetic sample transport technology, the flexibility to create over 300 customizable configurations, and a broad assay menu with proven detection technologies.



The **Atellica® IM 1300 Analyzer** (mid-volume) and the **Atellica® IM 1600 Analyzer** (high-volume) have the same footprint and utilize the proven acridinium ester (AE) technology. Engineered to be highly reliable for high productivity within a small footprint, these immunoassay analyzers feature built-in temperature control, automatic quality control (QC) when connected to the Atellica® Sample Handler, workflow enhancements to reduce

operator intervention, and a broad and expanding menu across disease states. The Atellica IM analyzers use the same reagents and consumables in every configuration for streamlined inventory management and consistent patient results, no matter where the samples are tested.

Up to three Atellica IM analyzers can be connected in the Atellica Solution to accommodate immunoassay testing volume.

## Technical Specifications

Product Specifications	
<b>Description</b>	Immunoassay analyzer with chemiluminescence testing methodology using advanced acridinium ester technology
<b>Test Throughput</b>	Atellica IM 1300 Analyzer: up to 220 tests per hour;* Atellica IM 1600 Analyzer: up to 440 tests per hour*
<b>Walkaway Time</b>	Atellica IM 1300 Analyzer: up to 7.5 hours; Atellica IM 1600 Analyzer: up to 5 hours
Sample Handling	
<b>Validated Sample Types</b>	Serum, plasma, amniotic fluid, urine, whole blood (assay-specific)
<b>Sample Integrity Control</b>	Liquid-level sensing, clot detection, bubble detection, short-sample detection; hemolysis, icterus, and lipemia checks applied when connected to the Atellica® Chemistry Analyzer
<b>Auto-repeat</b>	Automatic repeat testing from the original sample
<b>Sample Dilution</b>	Assay-dependent; can be auto-diluted and repeated when results extend linearity
<b>Auto-reflex Testing</b>	Will perform additional tests based on results of first test or test combination
<b>Sample Carryover Prevention</b>	Disposable sample tips eliminate sample carryover
<b>Sample Volume per Test</b>	10 to 100 µL of sample (varies by assay)
Reaction Area	
<b>Reaction Cuvettes</b>	Total of 160 cuvette positions: 89 slots in the outer ring and 71 in the inner ring
<b>Reaction Temperature</b>	37°C
<b>Reaction Detection</b>	Photomultiplier tube (PMT)
<b>Assay Reaction Formats</b>	Sandwich, competitive, and antibody-capture/antigen-bridge formats
<b>Assay Times</b>	10–54 minutes, assay-dependent
<b>Assay Technology</b>	Chemiluminescence testing methodology using advanced acridinium ester technology
Reagent Handling	
<b>Reagent Compartments</b>	42 primary and 35 ancillary reagent positions with refrigeration and humidity control. Continuous and automatic mixing to maintain particle suspension.
<b>Reagent Packs</b>	ReadyPack® cartridge: 50 to 200 tests per pack
<b>Reagent Integrity Control</b>	Reagent pack bar-code identification; automatic tracking and notification of inventory, calibration and control validity, onboard stability, low and expired reagents, detection of reagent bubbles
<b>Onboard Stability</b>	4–90 days, assay-dependent
<b>Reagent Inventory Management</b>	Automatic tracking and notification of remaining tests, onboard stability and expiration, calibration, and storage conditions for each pack
<b>Dispensing System</b>	Three probes with liquid-level sensing
<b>Bar-code-Labeled Packs</b>	Yes
Calibration/QC	
<b>Calibration Interval</b>	Assay-dependent up to 90 days, tracked by software
<b>Calibration Review</b>	Graphical display of calibration curves from a minimum of 20 different reagent lots and 20 reagent packs for each assay
<b>Auto-QC</b>	Automatic, user-defined, assay-specific quality control (when connected to Atellica Sample Handler)
<b>Quality Control Review</b>	Advanced QC package with graphical display of QC in real time, including patient moving averages, Levey-Jennings plots, Westgard rules, RiliBÄK rules; up to 125,000 control results can be stored; archivable to removable media
<b>QC Material</b>	QC material is auto-loaded, tracked, and stored in a 60-position covered and refrigerated compartment and automatically deployed to analyzers when QC is scheduled (when connected to Atellica Sample Handler)

\*Dependent upon test mix.

## Technical Specifications

Maintenance	
<b>Daily</b>	Automated: <30 minutes
<b>Weekly</b>	Automated: <40 minutes; hands-on: <20 minutes.
<b>Monthly</b>	Hands-on: <20 minutes
<b>As Needed</b>	Refer to Operator's Guide for additional periodic maintenance
<b>Maintenance Logs</b>	Automated onboard scheduling, notification, and reporting
General Specifications	
<b>Power Requirements</b>	Requires a 4.4 kVA (US)/3.7kVA (EU) power source; single-phase, 2-pole, 3-wire configuration; with Class III grounding. Will support incoming AC voltage from a nominal line voltage range of 200 to 240 VAC, 50/60 Hz. Main supply voltage fluctuations are not to exceed ±10 percent of the nominal voltage.
<b>Power Consumption</b>	2.9 kilowatts/hour (maximum)
<b>Water Input Requirements</b>	Incoming pressure from 5 psi and 30 psi at a temperature of 10–30°C
<b>Water Quality Requirements</b>	CLSI Special Reagent Water: <ul style="list-style-type: none"> <li>Resistivity: ≥10 MΩ-cm</li> <li>Bacteria: ≤50 cfu/mL</li> <li>Total Organic Carbon (TOC): ≤500 ppb</li> <li>Laboratory purification system must include a stage that blocks passage of particles ≥0.22 µm, at or near the output stage</li> </ul>
<b>Maximum Water Consumption</b>	IM 1300 Analyzer: 3.5 liters/hour; IM 1600 Analyzer: 6 liters/hour
<b>Drain Requirements</b>	Minimum of 15 liters (3.96 gallons) per hour per analyzer
<b>Dimensions</b>	150.0 (h) x 145.3 (w) x 116.7 (d) cm; 59.1 (h) x 57.2 (w) x 45.9 (d) inches
<b>Weight</b>	594.7 kg (1308 lb)
<b>Compliance</b>	Complies with international environmental, health, and safety standards including CE and RoHS
<b>Noise Emission</b>	Average Sound Pressure Level: 65 dBA
<b>Processing Heat Output</b>	4530 BTU/hour
<b>Ambient Temperature</b>	18–30°C (64–86°F)
<b>Ambient Humidity</b>	20–80% noncondensing
<b>Altitude</b>	0–2000 m
<b>Floor Load-Bearing Requirement</b>	351 kg/m <sup>2</sup>
<b>Overvoltage Classification</b>	Category II
<b>Pollution Classification</b>	Degree 2
<b>Removable Media</b>	USB

## Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica® portfolio of laboratory products.

# Control. Simplicity. Better Outcomes.

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