



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	
Description	Immunoassay analyzer with chemiluminescence testing methodology using advanced acridinium ester technology
Test Throughput	Atellica IM 1300 Analyzer: up to 220 tests per hour;* Atellica IM 1600 Analyzer: up to 440 tests per hour*
Walkaway Time	Atellica IM 1300 Analyzer: up to 7.5 hours; Atellica IM 1600 Analyzer: up to 5 hours
Sample Handling	
Validated Sample Types	Serum, plasma, amniotic fluid, urine, whole blood (assay-specific)
Sample Integrity Control	Liquid-level sensing, clot detection, bubble detection, short-sample detection; hemolysis, icterus, and lipemia checks applied when connected to the Atellica® Chemistry Analyzer
Auto-repeat	Automatic repeat testing from the original sample
Sample Dilution	Assay-dependent; can be auto-diluted and repeated when results extend linearity
Auto-reflex Testing	Will perform additional tests based on results of first test or test combination
Sample Carryover Prevention	Disposable sample tips eliminate sample carryover
Sample Volume per Test	10 to 100 µL of sample (varies by assay)
Reaction Area	
Reaction Cuvettes	Total of 160 cuvette positions: 89 slots in the outer ring and 71 in the inner ring
Reaction Temperature	37°C
Reaction Detection	Photomultiplier tube (PMT)
Assay Reaction Formats	Sandwich, competitive, and antibody-capture/antigen-bridge formats
Assay Times	10–54 minutes, assay-dependent
Assay Technology	Chemiluminescence testing methodology using advanced acridinium ester technology
Reagent Handling	
Reagent Compartments	42 primary and 35 ancillary reagent positions with refrigeration and humidity control. Continuous and automatic mixing to maintain particle suspension.
Reagent Packs	ReadyPack® cartridge: 50 to 200 tests per pack
Reagent Integrity Control	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
Onboard Stability	4–90 days, assay-dependent
Reagent Inventory Management	Automatic tracking and notification of remaining tests, onboard stability and expiration, calibration, and storage conditions for each pack
Dispensing System	Three probes with liquid-level sensing
Bar-code-Labeled Packs	Yes
Calibration/QC	
Calibration Interval	Assay-dependent up to 90 days, tracked by software
Calibration Review	Graphical display of calibration curves from a minimum of 20 different reagent lots and 20 reagent packs for each assay
Auto-QC	Automatic, user-defined, assay-specific quality control (when connected to Atellica Sample Handler)
Quality Control Review	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
QC Material	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	
Daily	Automated: <30 minutes
Weekly	Automated: <40 minutes; hands-on: <20 minutes.
Monthly	Hands-on: <20 minutes
As Needed	Refer to Operator's Guide for additional periodic maintenance
Maintenance Logs	Automated onboard scheduling, notification, and reporting
General Specifications	
Power Requirements	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.
Power Consumption	2.9 kilowatts/hour (maximum)
Water Input Requirements	Incoming pressure from 5 psi and 30 psi at a temperature of 10–30°C
Water Quality Requirements	CLSI Special Reagent Water: <ul style="list-style-type: none"> Resistivity: ≥10 MΩ-cm Bacteria: ≤50 cfu/mL Total Organic Carbon (TOC): ≤500 ppb Laboratory purification system must include a stage that blocks passage of particles ≥0.22 µm, at or near the output stage
Maximum Water Consumption	IM 1300 Analyzer: 3.5 liters/hour; IM 1600 Analyzer: 6 liters/hour
Drain Requirements	Minimum of 15 liters (3.96 gallons) per hour per analyzer
Dimensions	150.0 (h) x 145.3 (w) x 116.7 (d) cm; 59.1 (h) x 57.2 (w) x 45.9 (d) inches
Weight	594.7 kg (1308 lb)
Compliance	Complies with international environmental, health, and safety standards including CE and RoHS
Noise Emission	Average Sound Pressure Level: 65 dBA
Processing Heat Output	4530 BTU/hour
Ambient Temperature	18–30°C (64–86°F)
Ambient Humidity	20–80% noncondensing
Altitude	0–2000 m
Floor Load-Bearing Requirement	351 kg/m ²
Overvoltage Classification	Category II
Pollution Classification	Degree 2
Removable Media	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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