



Technical Specifications

Atellica CI 1900 Analyzer

The Atellica® CI 1900* integrated chemistry and immunoassay analyzer is designed to meet the needs of smaller labs.

siemens-healthineers.com/ci1900



**Not available for sale in the U.S.
Under FDA review.*

Technical Specifications

Product Specifications

Description	Integrated Chemistry and Immunoassay analyzer. Chemistry and Immunoassay technologies sharing no major components, to help maximize test throughput while minimizing laboratory footprint.
Test Throughput	Up to 1120 tests per hour (up to 600 Photometrics, 400 IMTs, 120 Immunoassays)
User Interface	Integrated software with intelligent monitoring of supplies, consumable, and common laboratory tasks from the home screen dashboard. The User Interface features onboard tools to assist with laboratory accreditation, simplifies training to optimize the user experience with guided workflows, lab evaluation suite and customizable dashboard.
Walkaway Time	2 hours

Sample Handling

Validated Sample Types	Serum, plasma, amniotic fluid, urine, whole blood (assay-specific), CSF and other
Sample Integrity Control	Liquid-level sensing, clot/clog detection, bubble detection, short-sample detection; hemolysis, icterus, and lipemia
Auto-repeat	Automatic repeat testing from the original and diluted sample
Sample Dilution	Assay-dependent; can be auto-diluted and repeated when results extend linearity
Auto-reflex Testing	Configurable, additional tests based on results of first test or test mix
Sample Carryover Prevention	Chemistry uses Precision Wash System Immunoassay uses disposable sample tips for the elimination of carryover
Sample Volume per Test	2–100 μ L of sample (varies by assay)

Reaction Area

Reaction Cuvettes	CH dilution cuvettes (64 reusable cuvettes, 4 segments at 16 cuvettes each) CH reaction ring segments (CC = 130 reusable cuvettes, 10 segments, 13 cuvettes) IM incubation ring holds 56 Cuvettes
Reaction Temperature	CH: 37°C \pm 0.3°C, IM: 37 \pm 0.4°C
Chemistry Reaction Detection	Reaction Area: Photometer, LED light source with 11 fixed wavelengths (340, 410, 451, 478, 505, 545, 571, 596, 658, 694, 805 nm). Linearity: 0–3.0 AU, Resolution: 0.0001 AU
Chemistry Assay Calculations	Endpoint (EPA), rate reaction (RRA), 2-point rate (2PA), sample blank correction
Immunoassay Reaction Detection	IM: Photomultiplier Tube
Immunoassay Reaction Formats	IM: Sandwich, competitive, and antibody-capture/antigen-bridge formats
Assay Times	Chemistry and Immunoassay: 1–54 minutes assay dependent
Assay Technology	CH: Integrated Multisensor Technology (IMT, electrolytes), photometric, and turbidimetric IM: Chemiluminescence testing methodology using advanced Acridinium Ester technology

Reagent Handling

Reagent Compartments	CH: One Tray (70 positions), refrigerated, temperature controlled compartment 4–12°C IM: 20 primary, 20 ancillary reagent positions with refrigeration and humidity control, continuous and automatic mixing to maintain particle suspension, temperature controlled compartments 4–10°C
Reagent Packs	CH: 50 mL dual-well reagent containers (2 x 25 mL each); 95–2100 tests per pack IM: ReadyPack [®] cartridge: 50–200 tests per pack
Reagent Integrity Control	Reagent pack barcode identification: Automatic pack/well tracking, notification of inventory, calibration and control validity, onboard stability, low and expired reagents, detection of reagent bubbles.
Onboard Stability	CH: Up to 6 months (assay dependent) IM: Up to 3 months (assay dependent)
Dispensing System	CH: One Probe with liquid-level sensing and crash detection IM: One Probe with liquid-level sensing and crash detection
Barcode-labeled Packs	Yes
Average Reagent Volume	10–100 μ L per test, assay-dependent
Open Channels	CH only: Available, configurable to assay specifications with ability to copy Atellica CH assays and configure per laboratory needs.

Integrated Multisensor Technology (IMT) for Na⁺, K⁺, Cl⁻ (This section is only applicable to CH)

Assay Time	18 seconds
Sample Volume	25 μ L produces three results
Sample Dilution	Automatic 1:10, and automatic monitoring for bias with every patient result
Calibration	Automatic calibration
Priming	Automatic priming cycle
A-LYTE [™] Integrated Multisensor Technology Cartridge Use Life	Up to 5000 samples or 14 days

Calibration/QC

Auto-calibration	Automatic calibration orders generated by Test Definition for CH and IM assays.
Calibration Review	Graphical display of calibration curves for a minimum of 20 different reagent lots and 20 reagent packs for each assay with autovalidation.
Auto-QC	Automatic QC orders generated by Test Definition for CH and IM Assays. Quality control testing can be automatically ordered by day, time, panel, test count, control material and with calibration orders.
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; autovalidation, archivable to removable media.
QC/Calibration Material	QC and calibration materials are tracked in the software by Test Definition and sequence number. Includes onboard stability and interval expiration.
Laboratory Evaluations	Patent Pending assay evaluation suite. Provides onboard support for Precision testing, automatic and manual measuring interval verification studies, QC parallel and Reagent lot-to-lot testing.

Maintenance

Daily	Hands-on: <5 minutes; Automated: ≤30–45 minutes.
Weekly	Hands-on: <4 minutes; Automated: up to 75 minutes.
Monthly	Hands-on: <5 minutes
As Needed	Refer to Online Help for additional periodic maintenance
Maintenance Logs	Operators Log, Maintenance Log, LIS Log, and Audit Trail Logs monitor activities via the software. Monthly approvals, stored on the system, printable, exportable and formatted for inspections.

General Specifications

Power Requirements	Voltage: 200–240 VAC, Current Rating: 30 A, Frequency Rating: 50/60 Hz 5.0 m power cord with an IEC 60309 (6H) 30A/250V 2P+E plug (OUS) or NEMA L6-30 plug (US) Customer Must provide : IEC 60309 (6H) 30A/250V 2P+E receptacle IEC 60309 (6H) 30A/250V 2P+E receptacle required
Power Consumption	Idle: 100 Watt, Running: 1530 Watt
Water Input Requirements	2.0–4.5 L/min at temp of 10–30° C. <33 L/h
Water Quality Requirements	Special Reagent Water. Bacterial (≤50 CFU/mL), Total Organic Carbon (≤500 ppb)
Maximum Water Consumption	Up to 18.7 L/hour
Drain Requirements	76.2 mm (3 inches) drain is recommended to handle minimum of 100 L/hour (1.7 L/min)
Dimensions [†]	(H) 1600 mm, (W) 2034 mm, (D) 934 mm = <1.9 m ²
Weight	760 kg (1675.5 lbs)
Compliance	Complies with international environmental, health, and safety standards, including CE and RoHS.
Noise Emission	Compliant with NC-43 noise control specification. Average sound pressure of <65 dBA, 1m away from analyzer.
Processing Heat Output	Idle: 4450 BTU/hr, Running: 5210 BTU/hr
Ambient Temperature	18–30° C (64–86° F)
Ambient Humidity	20–80 % non-condensing
Altitude	Up to 2000 meters
Floor Load-bearing Requirement	374.6 kg/meter squared, seismic anchoring available
Overvoltage Classification	Category II
Pollution Classification	Degree 2
Removable Media	USB

[†]Dimensions with Rack Handler.

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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We are a team of 66,000 highly dedicated employees across more than 70 countries passionately pushing the boundaries of what's possible in healthcare to help improve people's lives around the world.

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