

HumaStar 100 | 200

The perfect choice for aspiring labs

- › Robust design for optimal performance
- › Proven - thousands of units in use worldwide
- › Reliable results - perfect matching of reagents, calibrators and controls

Clinical Chemistry



HUMAN

Diagnostics Worldwide

HumaStar 100 | 200

Experience out of the ordinary

One concept – two instruments

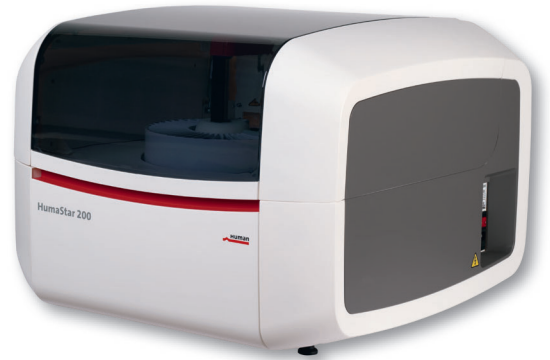
- › Random access clinical chemistry analyzer
- › Tailored solution to your throughput need
- › Eco-friendly - low water consumption



HumaStar 100

REF 16890

- › Constant throughput of 100 tests per hour



HumaStar 200

REF 16895

- › Up to 200 tests per hour

Comprehensive features

- › Less than 1L/h (HS100) or 2L/h (HS200)
- › 80 reusable Bionex® cuvettes
- › 8-step wash station
- › Primary tubes and sample cups
- › Reagent cooling
- › 30 reagent and 60 sample positions
- › Internal sample barcode reader
- › Needle shock detector
- › Capacitive liquid level detector
- › Large liquid containers with level sensors
- › Method defined washing programmes
- › Windows 10®, USB compatible
- › LIS via ethernet, ASTM, bidirectional
- › Software designed for touch screen
- › Continuous reagent cooling independent from main power switch

Easy and efficient

- › Automatic pre- and post-dilution
- › Minimal water and energy consumption
- › Minimal user maintenance
- › Removable sample tray
- › Choice of three different sample trays
- › Primary tubes up to 16 x 100 mm and sample cups
- › Removable reagent tray
- › 50 ml or 20 ml reagent bottles available
- › Printing on Windows compatible printer

Safety first

- › Intelligent flagging system and extensive error log
- › Counter for components life cycle and maintenance
- › Two types of systemic and special washing solution
- › Routine check and blank for each individual cuvette
- › Validity limits for methods and reactions programmable
- › Reagent integrity check
- › UPS 230V included in standard delivery



Clinical Chemistry

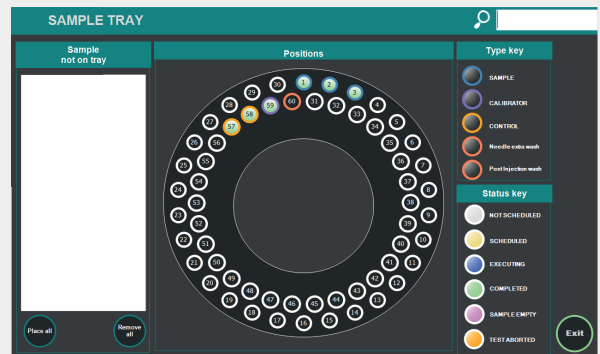


Movie



User software – versatile and easy to use

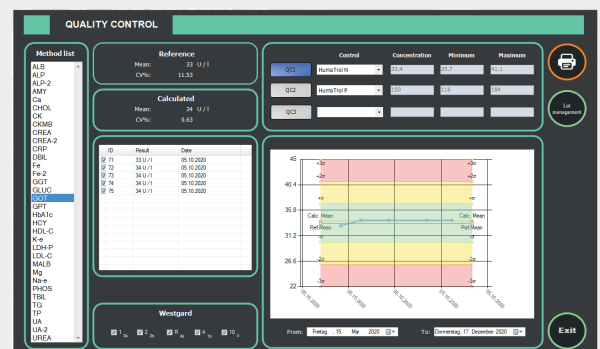
- › Software designed for touchscreen use
- › Intuitive user interface
- › Numerous features to ease daily routine



Sample Tray



Test Inspection



Quality Control

Intelligent software design and architecture

- › Smart graphical user interface for convenient operation
- › Continuous loading of samples and reagents
- › Random-access and STAT
- › Free choice of execution order
- › Extended walk-away capability
- › Results archive with cumulative charts
- › Programmable automatic start up routine
- › Multiple work lists
- › Multi-language software: English, French, Spanish
- › Method and reagent monitor
(volumes, available tests, calibration, QC status)

QC options

- › Levey-Jennings plots and Westgard multi rules
- › Up to 3 QC levels per test
- › QC monitor and reports
- › Method statistics: including test counter, CV%, mean, graphical trend analysis

Calibration

- › Automatic pre-dilution for calibrators
- › Up to 8 calibrators per method

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Technical data

Mode	Random-access, STAT	Pipetting	Needle shock detector
Throughput	HumaStar 100: 100 t/h constant throughput		Capacitive liquid level detector
	HumaStar 200: Up to 200 t/h throughput	Wash station	8-step cuvette wash station
Analysis	Endpoint (bichromatic), Differential endpoint (with sample blank), Fixed time, Kinetic (bichromatic), Multi-standard (up to 8), factor, linear, non linear (cubic-spline, poly-linear and logit-log four parameters)		Systemic and special washing solution
Samples	Removable sample tray 60 positions: primary tubes 12–12.5 x 100 mm and 10 mm cups Optional: sample tray for 20 primary tubes 12–16 x 100 mm and 20 cups 3.5 ml Sample volume: 2–300 µl Internal barcode reader Automatic pre- and post-dilution Test profiles and replicates	Optical system	HumaStar 100: 4 dispensing needles Water consumption < 1 l/h (8 ml/test)
Reagents	Removable reagent tray 30 reagent / diluent positions 50 and 20 ml bottles, adapter for tubes and cups Reagent volumes: 5–350 µl Refrigeration to ~9°C below ambient Substrates, Enzymatic, Turbidimetric		HumaStar 200: 6 dispensing needles Water consumption < 2 l/h (8 ml/test)
Reaction	Reaction volume: 210–350 µl 80 reusable Bionex® cuvettes 6 mm optical path Heat transfer by air	LIS	Bi-directional, polling mode, ASTM, ethernet
		Usability	Designed for touch screen (1280 x 1024 pixel)
		Languages	English, French, Spanish Software (other languages can be added)
		Printouts	By patient, single test, complete sample, work sheet, method and QCs, calibration curves, kinetics, continuous printing
		Power	220–240 or 110–120 Vac, 50/60 Hz, < 200 VA Online UPS 230V included in Standard delivery
		Dimensions	69 x 76 x 52 cm (W x D x H)
		Weight	51 kg
		Environment	16–30°C, humidity < 80 % non-condensing

