

**easyra** random access clinical chemistry analyzer

A different story.



easyra

See for yourself.





### WORKLIST

- real-time display of sample status
- up to 7 configurable test panels
- automatic inventory of reagents and cuvettes prior to run
- pause feature for “on the fly” editing
- automatic search of pending samples
- convenient re-run of tests that require diluting
- LIS connectivity

### RESULTS

- touch sample position on display for detailed patient results
- easy access to current and past results in multiple print and viewing formats
- on-board patient result search and sorting capability
- Levey Jennings QC charts

### STATUS

- on-screen display of tables and graphics gives status of reagents, Cals and QC at a glance
- detailed automatic warnings

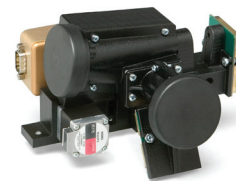
### SETUP, DIAGNOSTICS and MAINTENANCE

- flexible setup of test panels, units, normal and rerun ranges
- patient demographics input and storage
- calibration and QC parameters downloaded automatically from CD or entered manually
- on-screen graphics guide user through maintenance and diagnostic steps



Lab technicians become experts with minimal training thanks to a simple and intuitive user interface. Four color-coded chapters guide the technician through all analyzer functions. EasyRA is quickly operational and ready to run samples.

Friendly displays clearly signal the progress of a run and easily allow changes. Analyze stat samples at any time with typical stat results in less than 8 minutes. Save valuable time by programming the next worklist while another worklist is running, or simply check reagent and cuvette inventories to prepare for the next run.



Reliable performance, test after test. The photometer's xenon flash lamp typically has a 5-year use life and is maintenance-free. No bulb replacement required—no analyzer down time.



The ISE Module is fully accessible for replacement of the economical, no-maintenance, snap-in electrodes.



Diluter pump seals are maintenance-free. The transparent design allows for easy inspection of solutions.

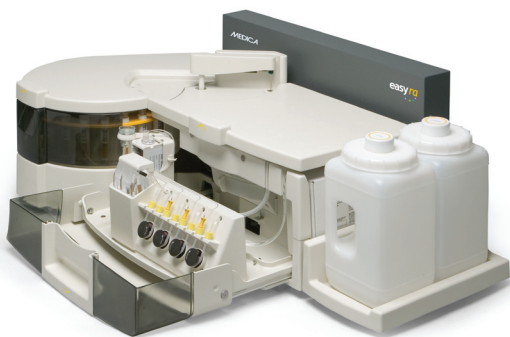


ISE reagents are contained in a convenient, disposable reagent pack. No bottles or tubing to replace.

# intentionally easy

- ...to learn
- ...to use
- ...to maintain
- ...to afford

EasyRA reagents are liquid, stable, and ready to use. EasyRA automatically performs reagent parameter setup. Unlike barcodes, the new wireless RFID technology, located in each wedge label, contains all reagent information. Setup is fast, easy, and error-free. There is never a need for manual programming: simply place a smart reagent wedge on the analyzer and EasyRA identifies reagent locations, number of samples remaining, sample volumes, and expiration dates, significantly reducing data entry errors. Two-way communication between the analyzer and the reagent wedges allows for continuous updating, providing real-time inventory control.



The unique slide-out drawer makes maintaining EasyRA simple by making all components easily accessible. Ion-selective electrodes and tubing are easily replaced. The "peek" position allows viewing of diluter and pumps during a sample run.

## EasyRA specifications

system specifications	true random access, clinical chemistry analyzer
throughput	analysis rate, photometric: 150 tests/hour; Patient results per hour, photometric: up to 120 tests/hour; Patient results per hour, photometric with ISE: up to 340 tests/hour; STAT time: 8 minutes (Na <sup>+</sup> /K <sup>+</sup> /Cl <sup>-</sup> /CO <sub>2</sub> /GLU/BUN/CREA)
types of analysis	endpoint, enzymatic, rate, bichromatic, potentiometric
samples	24 sample positions per sample ring for patient, calibrator, or QC samples; STAT: up to 5 user-defined positions; optional second sample ring uniquely identified by analyzer; automatic dilution: 1:1 and 1:2
sample volume	photometric chemistries: 2.0–25.0 µL; programmed in 0.1 µL steps; ISE chemistries: serum: 80–90 µL; urine: 140 µL
sample containers	sample cups or primary tubes in a wide range of sizes
sample identification	position ID, barcode ID (optional), barcode types: codabar, code 39, 128, interleaved 2 of 5
reagents	24 positions for reagents; reagent cooling temperature 12°–15° less than ambient (with refrigeration option); reagent identification: RFID (radio frequency identification) technology—automatic tracking and entry of reagent information (chemistry name, lot number, expiration date; reagent volumes; analysis volumes for reagents, samples, diluent; primary and secondary wavelengths; reaction read times; analysis type; reagent and sample blanking; linear range of assay; acceptable absorbance ranges). Reagents are ready to use.
reagent volumes	reagent volume (R1)/test 120–350 µL; programmed in 1 µL steps. reagent volume (R2)/test 10–50 µL; programmed in 1 µL steps
water supply	reagent grade deionized water, diluent bottle
sampling system	probe pre-heater; single probe with RF level sensing; inner and outer probe washing
cuvette material	optical acrylic; disposable segments; 12 cuvettes per segment; 6 total segments in reaction area
reaction time	1–15 minutes
reaction temperature	37° ± 0.25° C (photometric chemistries)
wavelength	340, 405, 520, 550, 600, 700; half bandwidth 10 ± 2 nm
light source	xenon flash lamp, 5 year typical life
photometric linearity	0.0–2.0 Abs units for 1 cm pathlength (1% deviation)
photometric resolution	0.0001 Abs units at 1.0 Abs
quality control	2 levels of controls (Levey-Jennings plots for two levels)
calibration curves	single and multilevel calibration (based on analyte)
user interface	edit and monitor worklists; review results; review calibration and quality control results; Levey-Jennings charts for 31 days of QC results; on-board diagnostics and individual component monitoring; graphic instructions for daily, weekly and monthly maintenance procedures
data storage	2000 patient results; 56,000 test results
power requirements	100 VAC–240 VAC ± 10% 50–60 Hz, 4.0/2.0A
size and weight	40" w x 15" h x 26" d (102 cm x 38 cm x 66 cm), 88 lbs (40 kgs) without reagents
ambient conditions	15°–30° C (59°–86° F); <85% relative humidity, non-condensing atmospheric air environment
computer requirements	minimum: Windows XP®; CD/CD-RW; 1 RS-232 or USB port; touch screen monitor or SVGA color monitor, mouse and keyboard
printing	local or network printer
optional features	ISE Module; refrigeration; laboratory information system; (LIS) connectivity option (ASTM protocol); on-board sample bar code reader

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