

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 ⁺ /K ⁺ /Cl ⁻ /CO ₂ /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