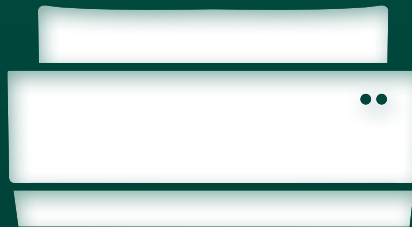


# RANDOX

## RX IMOLA

A fully automated clinical chemistry analyser

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A COMBINED THROUGHPUT OF 560 TESTS PER HOUR

THE RX IMOLA DELIVERS HIGH QUALITY  
TESTING FOR RESULTS YOU CAN TRUST

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**01** BENEFITS

---

**03** SYSTEM OVERVIEW

---

**05** TEST MENU

---

**07** SOFTWARE

---

**09** FEATURES AT A GLANCE

---

**10** ORDERING INFORMATION

---

**11** SPECIFICATIONS

---

**13** THE RX SERIES

---

**15** RANDOX - A GLOBAL DIAGNOSTIC  
SOLUTIONS PROVIDER

---

**16** CONTACT US

# BENEFITS

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## TEST MENU & CONSOLIDATION

Our extensive dedicated test menu comprises routine chemistries, lipids, antioxidants, cardiac and diabetes testing allowing laboratories to expand their testing capabilities while reducing additional costs associated with sending samples to be tested externally.

Direct, on-board, HbA1c testing capabilities provide many time saving benefits in the laboratory. As there is no pre-treatment step required HbA1c tests can be performed immediately, QC & Calibration checks are quicker, and offline calculations are not needed enabling faster recovery times.



## ACCURATE RESULTS

Dual reagent probes with liquid level sensors and bubble detection minimise carry over increasing accuracy. Serum indices check the integrity of patient samples, flagging if samples are deemed icteric, haemolytic or lipaemic. Dual 5 speed stirrers are optimised for each assay to ensure highly accurate results.



## QUALITY CONTROL

Providing simple, operational and testing efficiency, 6 different calibration options increase confidence with optimum algorithms being used to achieve the most accurate results. Users can view QC history with automatically generated Levey-Jennings Charts, Mean values, QC statistics and up to 10 user defined multi - rules designed to increase the probability of error detection and reduce false rejections.



## FLEXIBILITY & VERSATILITY

12 wavelengths generated via diffraction grating (340-800nm) ensure a multitude of chemistries are possible on one system. The RX imola is capable of running monochromatic, bi-chromatic, endpoint, kinetic, ISE, sample blanking and reagent blanking assays. A cooled reagent carousel, with 60 positions, allows on-board storage without compromising stability.



## UNRIVALLED PERFORMANCE

90 Pyrex® cuvettes with cuvette check function ensures only clean and viable reaction vessels are used. 5 speed mixing arms eliminate foaming and ensure adequate mixing of latex enhanced immunoturbidimetric assays. The continuous STAT loading hatch allows emergency samples to be analysed quickly and easily at any time.



## COST SAVINGS

Minimal maintenance required with just 2 preventative maintenance services per year for reduced downtime. Intuitive user-friendly software ensures that minimal training is required. The RX imola delivers on economic efficiencies with low water consumption of only 18L per hour providing comprehensive testing for rapid and accurate results.

# SYSTEM OVERVIEW

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1

## REAGENT CAROUSEL

60 reagent positions for 20ml, 50ml and 100ml bottles, all cooled between 8 -15°C. Our smart reagent inventory management system with automatic barcode functionality ensures instant recognition of reagents. Radox offers a wide range of dedicated, high performing and unique reagents.

2

## DUAL STIRRERS

Dual 5 speed rotating stirrers rinsed with purified water. The option of different mixing speeds ensure each reagent and sample are at optimum viscosity to enable accurate and precise measurement.

3

## WASH STATION

An 8 stage washing process with acid, alkali and pure water wash steps ensures cuvettes are thoroughly cleaned before each test. Liquid level sensors prevent cuvette overflows.



## SAMPLE CAROUSEL

4

The emergency loading port allows run interruption for STAT sample processing. 72 positions are contained within the outer ring of the carousel for normal and STAT samples with 20 positions available in the inner ring for QC and calibrators. Barcode sample identification ensures accurate matching of patient identification to specimen.

## PERMANENT CUVETTES

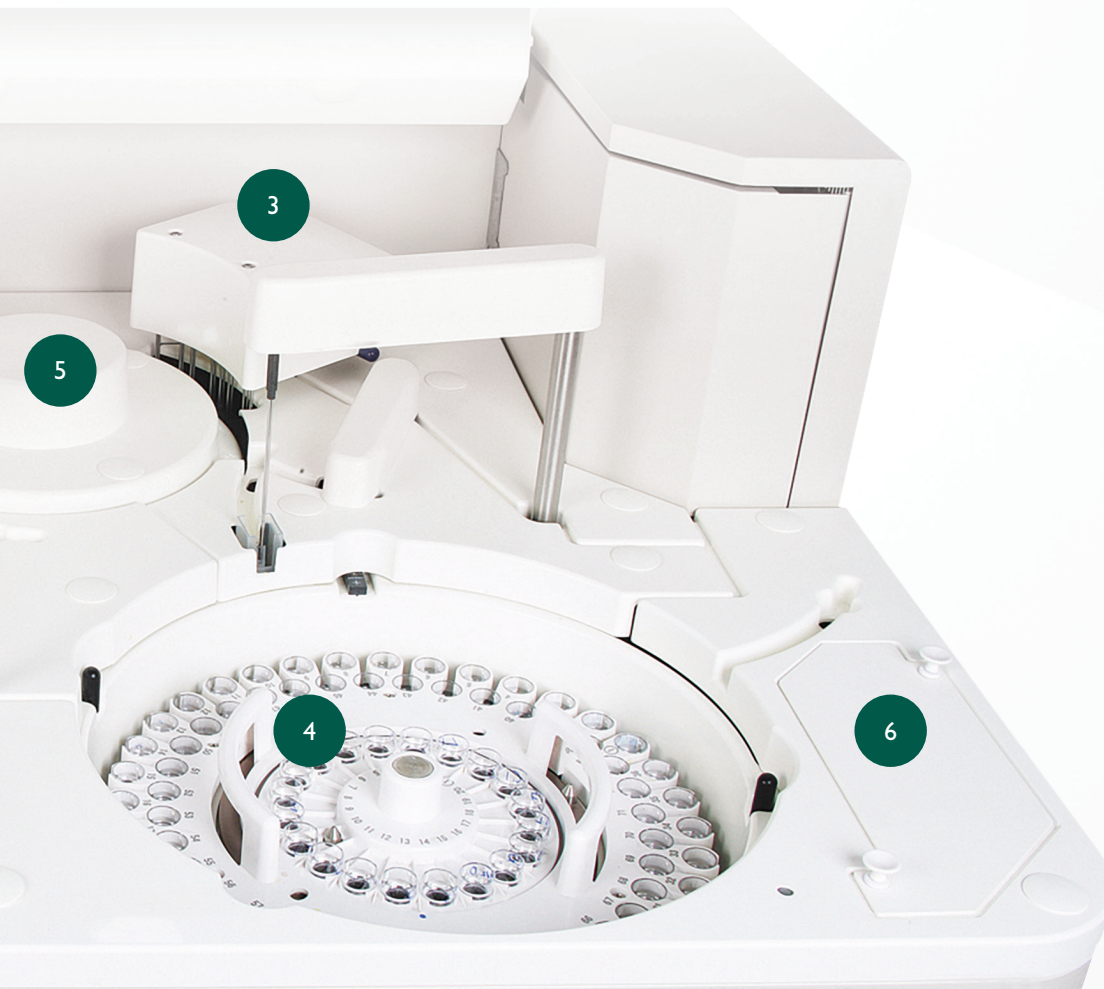
5

With 90 permanent Pyrex® cuvettes, the RX imola reduces downtime and ongoing consumable costs associated with changing disposable or semi-disposable cuvettes. Permanent cuvettes offer a lifespan of up to 5 years ensuring stability and accuracy of patient results.

## ISE UNIT

6

Providing cost savings, the RX imola has a built in ISE unit for direct measurements of sodium, potassium and chloride. The direct ISE approach requires no dilution steps to be carried out limiting possible sources of inprecision.



# THE RX SERIES TEST MENU



## CLINICAL

### AUTOIMMUNE:

Complement Component 3  
Complement Component 4  
CRP  
CRP Full Range (0.3-160mg/l)  
CRP High Sensitivity  
IgA  
IgE  
IgG  
IgM  
Rheumatoid Factor

### BASIC METABOLIC PROFILE:

Calcium  
CO<sub>2</sub> Total  
Chloride  
Creatinine  
Glucose  
Potassium  
Sodium  
Urea

### BONE PROFILE:

Alkaline Phosphatase  
Calcium  
Phosphorus  
Total Protein

### CARDIAC:

Cholesterol  
CK-MB  
CK-NAC  
CRP  
CRP Full Range (0.3-160mg/l)  
CRP High Sensitivity  
Direct HDL Cholesterol  
Direct LDL Cholesterol  
Homocysteine  
Lipoprotein (a)  
sdLDL  
Triglycerides

### COMPREHENSIVE METABOLIC PROFILE:

Albumin  
Alkaline Phosphatase  
ALT  
AST (GOT)  
Direct Bilirubin  
Calcium  
Chloride  
CO<sub>2</sub> Total

Creatinine  
Glucose  
Lactate  
Potassium  
Sodium  
Total Bilirubin  
Total Protein  
Urea

### DIABETES:

Cholesterol  
Creatinine  
Cystatin C  
Direct HDL Cholesterol  
Direct LDL Cholesterol  
Fructosamine  
Glucose  
Glycerol  
HbA1c (Direct)  
HbA1c/Hb (Indirect)  
Microalbumin  
NEFA (Non-Esterified Fatty Acids)  
Ranbut (D-3-Hydroxybutyrate)  
Total Protein  
Triglycerides  
Urinary Protein

### ELECTROLYTES:

Calcium  
Chloride (Nondirect)  
CO<sub>2</sub> Total  
Magnesium  
Potassium (Nondirect)  
Sodium (Nondirect)

### HAEMOLYTIC ANAEMIA:

G-6-PDH  
Haptoglobin  
LDH

### HEPATIC FUNCTION:

Albumin  
Aldolase  
Alkaline Phosphatase  
ALT  
Ammonia  
AST (GOT)  
Bile Acids  
Cholinesterase  
Complement Component 3  
Complement Component 4  
Direct Bilirubin  
Gamma GT

GLDH  
Glycerol  
Haptoglobin  
IgA  
IgG  
IgM  
Iron (UIBC)  
LDH  
Total Bilirubin  
Total Protein  
Transferrin  
Transthyretin (Prealbumin)

### INFLAMMATION AND INFECTION:

ASO  
CRP  
Lactate  
Rheumatoid Factor

### LIPIDS:

Apolipoprotein A-I  
Apolipoprotein All  
Apolipoprotein B  
Apolipoprotein CII  
Apolipoprotein CIII  
Apolipoprotein E  
Cholesterol  
Direct HDL Cholesterol  
Direct LDL Cholesterol  
Lipoprotein (a)  
sdLDL  
Triglycerides

### NEONATAL SCREENING:

CRP  
CRP Full Range (0.3-160mg/l)  
CRP High Sensitivity  
IgE  
Transthyretin (Prealbumin)

### NEUROLOGICAL DISORDERS (CSF):

IgA  
IgG  
IgM

### NUTRITIONAL STATUS:

Albumin  
Copper  
Ferritin  
Iron  
Iron (UIBC)

Lipase  
Magnesium  
Potassium  
TIBC  
Transferrin  
Transthyretin (Prealbumin)  
Zinc

### PANCREATIC FUNCTION:

Amylase  
Glucose  
LDH  
Lipase  
Pancreatic Amylase

### RENAL FUNCTION:

Albumin  
Ammonia  
Beta-2 Microglobulin  
Calcium  
Chloride  
Creatinine  
Cystatin C  
Glucose  
HbA1c (Direct)  
HbA1c/Hb (Indirect)  
IgG  
LDH  
Magnesium  
Microalbumin  
Potassium  
Sodium  
Phosphorus (Inorganic)  
Urinary Protein  
Urea  
Uric Acid

Product availability may vary from country to country. Please check with your local Randox representative.





## VETERINARY

Albumin	Cholesterol	Glycerol	Ransel (Glutathione Peroxidase)
Alkaline Phosphatase	Cholinesterase (Butyryl)	Iron (UIBC)	Ransod (Superoxide Dismutase)
ALT (GPT)	CK-NAC	Lactate	Sodium
Aldolase	CO <sub>2</sub> Total	Lactate Dehydrogenase	Total Protein
Ammonia	Copper	LDL	Triglycerides
Amylase	Creatinine	Lipase	Urea
AST (GOT)	Canine CRP	Magnesium	Uric Acid
Bile Acids	Fructosamine	NEFA (Non-Esterified Fatty Acids)	Urinary protein
Bilirubin	Gamma - GT	Phosphorus (Inorganic)	Zinc
Calcium	GLDH	Potassium	
Chloride	Glucose	Ranbut (D-3-Hydroxybutyrate)	



## TOXICOLOGY

<b>THERAPEUTIC DRUGS:</b>	<b>DRUGS OF ABUSE:</b>
Phenobarbital	Ethanol
Valproic Acid	



## PROTEINS

<b>SPECIFIC PROTEINS:</b>	Beta-2 Microglobulin	Haptoglobin	Rheumatoid Factor
Apolipoprotein A-I	Complement Component 3	HbA1c (Direct)	sTfR
Apolipoprotein AII	Complement Component 4	HbA1c/Hb (Indirect)	Transthyretin (Prealbumin)
Apolipoprotein B	CRP	IgA	Transferrin
Apolipoprotein CII	CRP Full Range (0.3-160mg/l)	IgE	
Apolipoprotein CIII	CRP High Sensitivity	IgG	
Apolipoprotein E	Cystatin C	IgM	
ASO	Ferritin	Lipoprotein (a)	
	Fructosamine	Microalbumin	



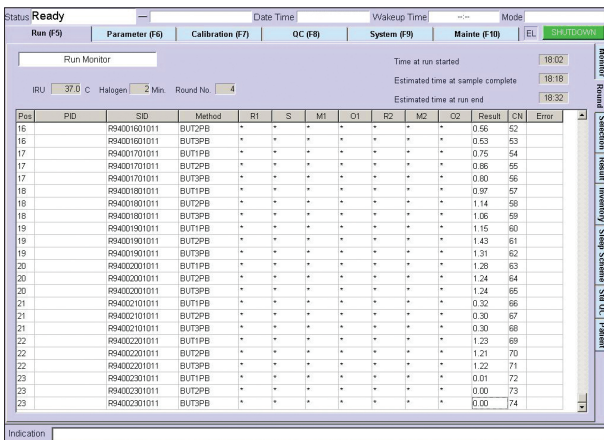
## RESEARCH

<b>ANTIOXIDANTS:</b>	Total Antioxidant Status	Ethanol
Albumin	Transferrin	Glucose/Fructose
Bilirubin	Uric Acid	Malic Acid
Ferritin		Potassium
Glutathione Reductase	<b>FOOD AND</b>	TAS
Ransel (Glutathione Peroxidase)	<b>WINE TESTING:</b>	
Ransod (Superoxide Dismutase)	Acetic Acid	
TIBC	Ammonia	
	Copper	

Product availability may vary from country to country. Please check with your local Randox representative.

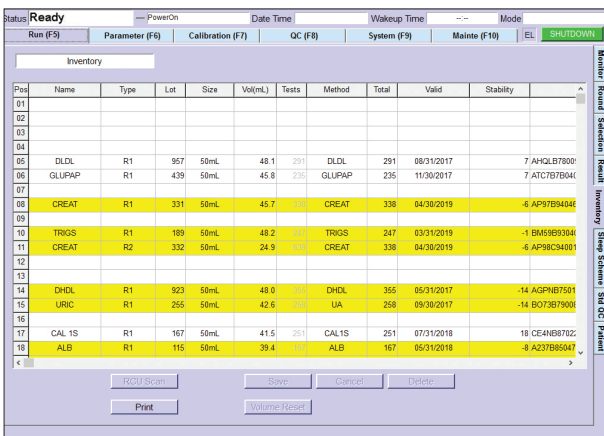
# SOFTWARE

The RX imola incorporates Windows® 10 based software. This intuitive software is easy for users to navigate, enhancing productivity requiring minimal training. The main screen links to a number of tabs including: Quality Control, Parameter, Calibration and Maintenance, allowing for simple access to information and straight forward selection of the operations required. Secure remote diagnostics saves money and time by allowing access to expert technical and applications staff anytime, anywhere. LIMS (Laboratory Information Management System) connectivity is easily achievable via ASTM standard.



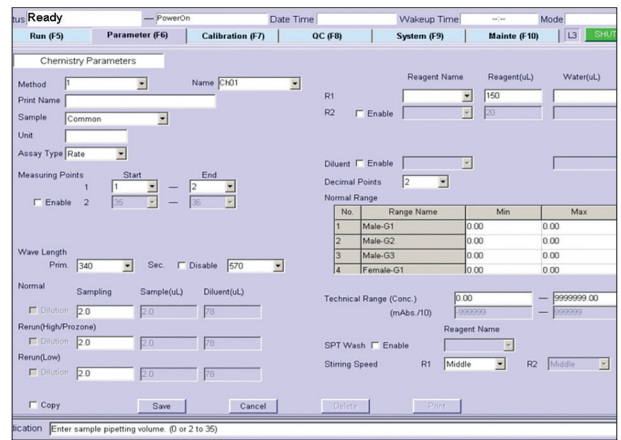
## REPORTS

The operator can search for previous reports and view real time results status, including time left until completion. The RX imola has a high capacity storage of up to 30,000 patient reports.



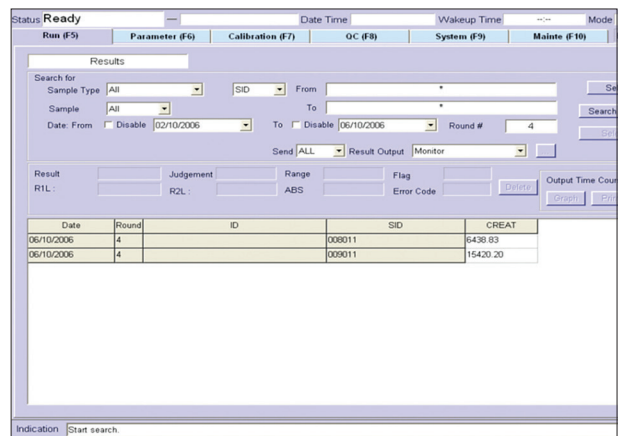
## REAGENT INVENTORY

Remaining reagent volume is automatically calculated on-board alongside the number of tests available and stability of the reagents. Should insufficient volume remain for any reagent, an alert will appear, allowing the operator to resolve the situation.



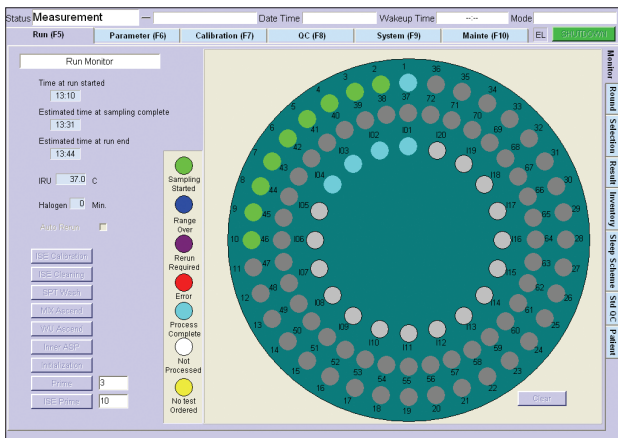
## CHEMISTRY PARAMETERS

The chemistry parameters screen enables pre-sample dilution to be set up and re-running of assays as required. The user may set up to 20 different test profiles and define the order of analysis.



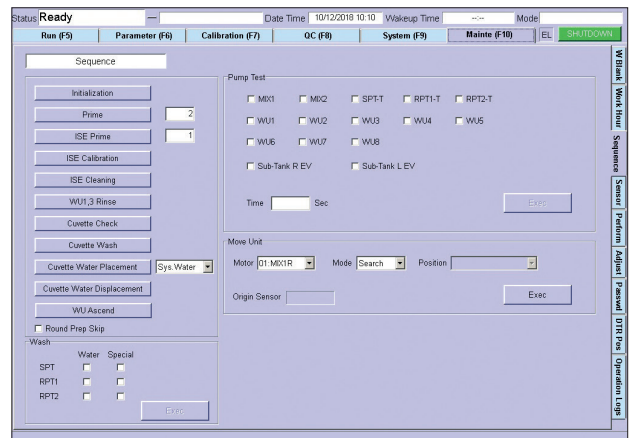
## RESULTS

Results are easily retrievable via various search options, like sample type, date or sample category etc. Laboratory staff can download and print results or transmit results to the LIMS system for all relevant clinicians to view.



## RUN MONITOR

This screen indicates the number of tests and time left until completion. STAT samples may be added without disturbing existing runs.



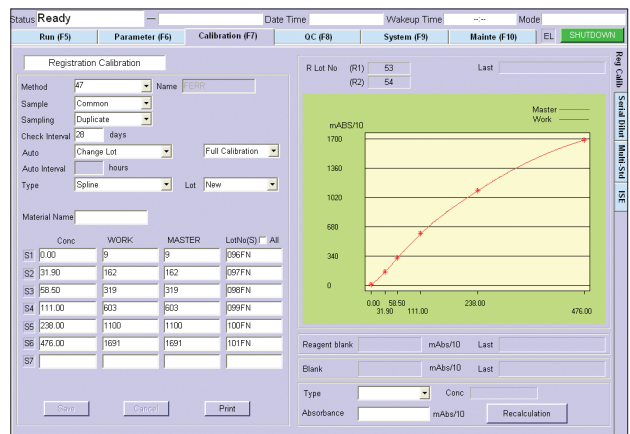
## MAINTENANCE

Less than 5 minutes daily maintenance is required.



## QUALITY CONTROL

The QC screen generates Levey-Jennings charts and calibration curves allowing a visual performance assessment plus easy identification of QC errors and emerging trends. QC multi rules can be applied to ensure high error detection and minimal false rejection.



## CALIBRATION

The software displays the current valid calibration for each assay installed, the reagent blank absorbance and the calibration check interval. There are 6 calibration models available: Factor, Linear, Point to point, Log-logit, Exponential and Spline.

# FEATURES AT A GLANCE

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Providing excellence in clinical chemistry, the RX imola fully automated system combines robust hardware and intuitive software with a wide range of unique and innovative features.



Liquid level sensor, crash, bubble and clot detection



Low water consumption of just 18 litres per hour



Versatile reagent carousel with 60 cooled positions



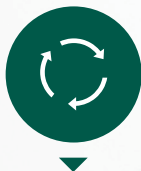
Unique loading hatch allows emergency samples to be analysed quickly and easily at any time



90 permanent Pyrex® cuvettes with innovative cuvette check functionality which optimises analyser performance



Universal sample carousel with 72 positions and 20 cooled control and calibrator positions



Dual 5 speed stirrers enabling mixing to be optimised for each assays requirements



Sleep and auto start functionality and automatic re-runs of sample for faults detected



Maximum of 5 minutes daily maintenance required

# ORDERING & CUSTOMER SUPPORT

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In choosing to purchase the RX imola from Randox you are partnering with a company that has over 40 years' experience in the IVD industry and clinical chemistry analyser placements in over 120 countries worldwide. Customers needs vary and Randox sales staff and distributor partners will work with your laboratory to create a bespoke package to suit your requirements. Randox Laboratories provide customers with an unrivalled technical support service.

## ORDERING INFORMATION

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RX imola analyser	RX4900
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For more information contact your local representative, or email us at: [theRXseries@randox.com](mailto:theRXseries@randox.com)

# SPECIFICATIONS

## PHYSICAL DIMENSIONS

Height	690 mm, 27in
Depth	582 mm, 23in
Width	970 mm, 38in
Weight	150 kg, 33 lbs

## PERFORMANCE CHARACTERISTICS

Throughput	400 photometric tests per hour, 240 ISE tests per hour. Combined throughput of 560 tests per hour
Analyser accreditation	CE marking in compliance with In Vitro Diagnostic Medical Device Directive 98/79/EC, FDA 510k cleared and UL certification
Analyser type	Compact fully automated random access bench top clinical analyser
Assay tests	Endpoint, kinetic, biochromatic, turbidmetric, sample blanking, reagent blanking and ISE
Maintenance	Daily maintenance-less than 5 minutes. No rear access required. Simple twice yearly preventative maintenance service
Data management	Storage of up to 30,000 patient reports, search facility, test counter
Test channels	60 photometric channels, 3 direct ISE tests - sodium, potassium and chloride
Sleep mode	User defined sleep mode capabilities with automatic wash and instrument prep

## REAGENT & SAMPLE SYSTEM

Reagent capacity	Removable tray with 60 cooled positions (30 positions for 100 or 50ml bottles and 30 positions for 20ml bottles)
Reagent cooling	8-15°C
Reagent identification	Automatic barcode reagent identification
Reagent inventory	Calculation of remaining reagent volume and tests available, alert for shortage, expired reagent and expired calibration
Reagent pipette	Dedicated twin reagent micropipette with liquid level sensor and crash detection, rinsed inside and outside with purified water
Sample addition	Immediate sampling interruption for addition of samples via removable panel
Sample capacity	Removable tray with 72 positions for samples, 20 cooled position for controls and calibrators
Sample dead volume	150µl in standard or primary tubes, 100µl in paediatric cups
Sample dilution	Pre-dilution and automatic re-assay with diluted, reduced or increased sample volume. Dilution mixture 100-350µl consisting of 2-35µl of sample and 20-350µl of diluent
Sample identification	Barcode sample identification
Sample pipette	Dedicated sample micropipette with liquid level sensor, crash detection, bubble detection and 4 levels of clot detection. Rinsed inside and outside with purified water
Sample tube Size	Multiple primary tube sizes (diameter 13 to 16mm, height 75 to 100 mm), paediatric cups
Sample type	Serum, Plasma, Urine, Supernatant & Whole Blood

Sample volume	2 to 35µl (0.1µl increments)
STAT sampling	Immediate STAT sampling interruption

## REACTION SYSTEM

Minimum reaction volume	150µl
Stirring speed	Dual 5-speed rotating stirrers rinsed with purified water
Stirring system	Paddle type rotating stirrer cleaned with purified water
Temperature	37°C±0.3
Cuvettes	90 reusable Pyrex® cuvettes with 5-year lifespan, min volume 150µl, Max volume 450µl, 8-stage cuvette washing system
Cuvette size	8(W) x 6.23(D) x 30(H) mm
Cycle time	9 seconds
Water consumption	18L per hour
Water requirements	NCCLS type 1 or 2 purified water supply at pressure [0.15-0.34Mpa]

## OPTICAL SYSTEM

Detector method	Direct absorbance in cuvette (bichromatic and monochromatic)
Detection principal	12 wavelengths: 340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750 and 800 nm
ISE tests	Integrated ISE unit
Light source	Halogen tungsten lamp (air-cooled, 6 months service life)

## CALIBRATION & QC

Quality control	Interactive Levey-Jennings Charts, Daily, Monthly and Batch QC with data archiving, Automatic QC and Automatic calibration
Calibration principal	Factor, Linear, point to point, spline, log-logit and exponential. Up to 7 calibrators per test

## POWER & CONNECTIVITY

Input voltage	100 - 240 Vac
Power consumption	<900 VA
UPS requirements	1230 W (analyser and PC)
LIMS connectivity	Bi-directional; ASTM standard (RS232 connection)

## OPERATING SYSTEM

Operator interface	15" LCD display and printer externally connected. Windows® based user Interface 100-249 VAC, 1230 Watt approx
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# THE RX SERIES

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## RX MISANO

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A semi-automated clinical chemistry analyser with the ability to run flow cell or cuvette mode. The RX misano offers 9 wavelengths spanning 340 - 700nm. A large 7" touch screen monitor responsive even when wearing lab gloves allows the user to easily navigate through the testing screens of the analyser. USB port allows users to import Randox-defined test menus and export patient, QC and calibration results.

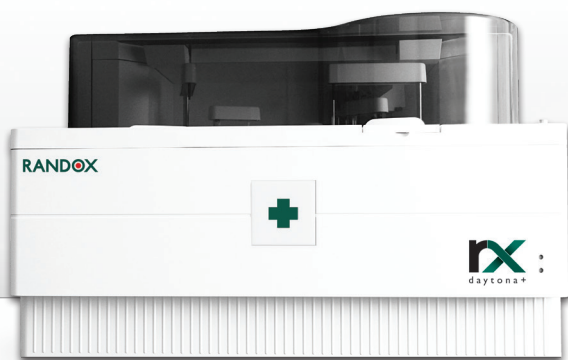


## RX MONACO

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The RX monaco is a fully automated, cost effective solution for low to mid volume clinical chemistry testing offering the ultimate in convenience, performance and confidence. At optimal configuration, the RX monaco performs 170 tests per hour, providing cost effective, high quality testing for small to medium sized laboratories. The RX series test menu allows for complete consolidation of routine and specialised testing onto one efficient, easy to use platform.





## RX DAYTONA+

The RX daytona+ is a bench-top, fully automated, random access clinical chemistry analyser capable of performing 270 photometric tests per hour, or 450 tests per hour including ISE. The most versatile analyser in its class, the RX daytona+ combines robust hardware and intuitive software with the world leading RX series test menu including routine & specialised testing and emergency STAT sampling for unrivalled performance.



## RX MODENA

A fully automated, random access, floor standing clinical chemistry analyser with a photometric throughput of 800 test per hour, increasing to 1200 including ISE. There are 13 wavelengths spanning 340 - 800nm and a fully automated onboard, haemolysis function for running direct HbA1c. Accurate results are supported by liquid level, clot, and crash detection. The operating system utilises a modern touchscreen interface and Windows 10 icon based software.

# RANDOX - A GLOBAL DIAGNOSTIC SOLUTIONS PROVIDER

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Randox has been supplying laboratories worldwide with revolutionary diagnostic solutions for over 40 years. Our experience and expertise allow us to create a leading product portfolio of high quality diagnostic tools which offer reliable and rapid diagnosis. We believe that by providing laboratories with the right tools, we can improve healthcare worldwide.

## REAGENTS



Randox offers an extensive range of third-party diagnostic reagents which are internationally recognised as being of the highest quality; producing accurate and precise results. At Randox, we re-invest significantly in R&D to ensure we meet the ever-changing needs of the laboratory. Consequently, Randox offer a range of novel and superior performance assays, including: sdLDL-C, Lipoprotein (a), Copper and Zinc. Applications are available detailing instrument-specific settings for the convenient use of Randox Reagents on numerous clinical chemistry analysers.

## INTERNAL QUALITY CONTROL



Acusera third party quality controls are made using the highest quality material of human origin, ensuring they react like a real patient sample. With more than 390 analytes available across the Acusera range we can uniquely reduce the number of controls required while reducing costs and time. Our product range includes clinical chemistry, immunoassay, urine, immunology and more. Qnostics molecular controls for infectious disease testing are designed to meet the demand of today's molecular diagnostics laboratory while effectively monitoring the entire testing process. Our whole pathogen molecular controls comprise hundreds of characterised viral, bacterial and fungal targets.

## EXTERNAL QUALITY ASSESSMENT



RIQAS is the world's largest international EQA scheme with more than 50,000 participants worldwide. 39 comprehensive, yet flexible programmes cover a wide range of clinical diagnostic testing including chemistry, immunoassay, cardiac, urine, serology and more. Our programmes benefit from a wide range of concentrations, frequent reporting, rapid feedback and user-friendly reports. QCMD, our range of EQA programmes for molecular infectious disease testing, features a whole pathogen matrix making them a true test of patient sample analysis. With access to over 90 programmes including blood borne viruses, respiratory diseases, multi-pathogen infections and more, there is something for every laboratory.

## EVIDENCE SERIES



In 2002, Randox invented the world's first, Biochip Array Technology, offering highly specific tests, coupled to the highly sensitive chemiluminescent detection, providing quantitative results instantly changing the landscape of diagnostic testing forever. The Randox Evidence Series of multi-analyte immunoanalyser's provide an unrivalled increase in patient information per sample offering diagnostic, prognostic and predictive solutions across a variety of disease areas with a highly advanced clinical and toxicology immunoassay test menu including cardiac, diabetes, drugs of abuse, metabolic, renal and stroke markers.

# CONTACT US FOR MORE INFORMATION ON ANY OF OUR PRODUCTS AND SERVICES:

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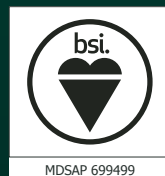


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