



SECTION 14

INSTRUMENTATION

In today's evolving and vast healthcare climate, clinics and laboratories around the globe face the challenges of raising patient care, whilst reducing operating costs. Fortress Diagnostics' diverse range of analysers offer laboratories the opportunity to provide affordable results without compromising quality.

Analyst 2010

- Semi automated.
- Photometric Accuracy.
- Dual function flow-cell and cuvettes.
- Mono and Bichromatic measurements.
- 99 tests channel available.
- Multi standard curves & user friendly, intuitive software.
- LCD Touchscreen display with integrated thermal printer.
- Low maintenance costs to promote lab efficiency



Name	Catalogue Number	Description	Type
Analyst 2010w	FORT2010	Semi-Automated Chemistry Analyzer	Manual

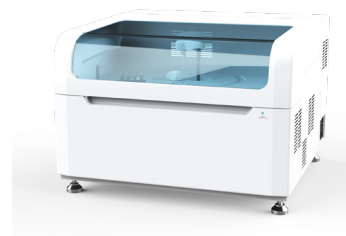
Monarch 100

- Fully automated random access & remote access available.
- 100 tests per hour
- Compact analyser for small to medium labs.
- Refrigerated reagent and sample compartments.
- 56 reagent positions and up to 80 sample positions.
- Supports remote maintenance via LIMS/HIS Interface.
- Fully dedicated barcode reagents available.



Monarch 240

- Fully automated random access & remote access available.
- 240 tests per hour.
- Cycle time: 15 Secs.
- Refrigerated reagent and sample compartments.
- 58 reagent positions and up to 64 sample positions.
- 120 reusable optical plastic cuvettes.
- 12 steps rinsing system.
- Supports remote maintenance via LIMS/HIS Interface
- Low sample and reagent pipetting volumes increasing precision and accuracy of results.
- Fully dedicated barcode reagents available.



Monarch 400

- Fully automated random access.
- 400 tests per hour or 640 tests per hour with optional ISE module.
- Cycle time: 9 Secs.
- Refrigerated reagent and sample compartments.
- 67 reagent positions and 115 sample positions.
- 120 Reusable optical plastic cuvettes.
- 7 stops and 11 steps rinsing system.
- Sample ID Manual, Alphanumeric, Barcodes.
- Supports remote maintenance via LIMS/HIS Interface.
- Low sample and reagent pipetting volumes increasing precision and accuracy of results.
- Supports remote maintenance via LIMS/HIS Interface.
- Low sample and reagent pipetting volumes increasing precision and accuracy of results.



Monarch 800

- Fully automated random access, STAT priority.
- 800 tests per hour
- Cycle time: 4.5 Secs.
- Refrigerated reagent and sample compartments.
- 132 reagent positions and 120 sample positions.
- 120 Reusable optical plastic cuvettes.
- 7 stops and 11 steps rinsing system.
- Sample ID Manual, Alphanumeric, Barcodes.
- Supports remote maintenance via LIMS/HIS Interface.
- Low sample and reagent pipetting volumes increasing precision and accuracy of results.



Monarch 1200

- Fully automatic, discrete, STAT priority
- Constant speed 800T/H for colorimetric test, 400T/H for ISE
- Long life halogen lamp
- 340-800nm, 12 wavelengths
- End-point, kinetics, fixed-time, etc.
- 1 point method, 2 point method, multiple point linear method, non-linear method Independent sample probes, reagent probes, automatic liquid level detection, probe liquid level tracing and clot detection function
- Probe inner wall high pressure rinsing
- 2 independent mixers ensure sufficient reaction
- 160 new type reaction cuvettes
- The temperature of reaction disk incubation bath is 37°C±0.1°C
- 140 sample positions, supporting multiple tubes and sample cups
- 2 compartments, 132 reagent positions and 2 detergent positions in total, with continuous refrigeration; supporting at most 4 kinds of reagents test function 1.5 ul-35ul, 0.1 ul increment
- 15 ul-350ul, 1 ul increment
- Minimum reaction volume 120 ul



Name	Catalogue Number	Description	Size
Monarch-100	MON0100S	Fully-Automated 100 Tests/Hour Bench Top Chemistry Analyzer	100 Tests P/H
Monarch-240	MON0240S	Fully-Automated 240 Tests/Hour Bench Top Chemistry Analyzer	240 T P/H
Monarch-400	MON0400S	Fully-Automated 400 Tests Hour Chemistry Analyzer	400 T P/H
Monarch - 800	MON0800S	Fully-Automated 800 Tests Hour Chemistry Analyzer	800 T P/H
Monarch - 1200	MON1200S	Fully-Automated 1200 Tests Hour Chemistry Analyzer	800 T P/H
Monarch-ISE-MODULE	MONISE00	Ise Module For Monarch 400	

Haemostasis / Coagulation Analysers

Thrombo Read +

- Semi-automated.
- Compact single channel coagulation analyser for measuring all clotting assays.
- Light weight and compact to utilize lab space.
- User friendly software.
- Test menu includes analysis of various coagulation assays.



Thrombo Fast +

- Semi-automated.
- Two channel coagulometer which enables duplicate tests to be run.
- Compact and easy to use.
- Ideal for all laboratories.
- Suitable for a wide variety of clotting assays.
- 2 measuring channels.
- 4 reagent positions.
- Mixing by magnetic stirring bars.
- 18 cuvette positions.
- Internal printer.
- ChipCARD® technology.



Thrombo Speed +

- Semi-automated.
- Four channel coagulometer enabling duplicate tests to be run.
- Easy to use and suitable for all laboratories.
- Suitable for a wide range of clotting assays and D-Dimer and a range of assays.
- 2 measuring channels.
- 4 reagent positions.
- Mixing by magnetic stirring bars.
- 18 cuvette positions.
- Internal printer.
- ChipCARD® technology.



Cascade +

- Fully automatic coagulometer, using a turbodensitometric detection principle.
- Automatically performs the analysis of various assays.
- Automatic rerun.
- Capacity of 32 samples
- 32 reaction cuvettes.
- 6 positions for reagents vials.
- Innovative cleaning program to avoid cross infection.
- Samples can be run in batches, random or in profiles to promote laboratory flexibility.



Name	Catalogue Number	Description	Size
Thrombo Read+	COAGA1CH	Turbodensitometric, One Channel	
Thrombo Fast+	COAGA2CH	Turbodensitometric, Two Channel	
Thrombo Speed+	COAGA4CH	Turbodensitometric, Four Channel	
Cascade +	COAGAUTO	Turbodensitometric, Fully Automated	
Coagulation Cuvettes, Inc Mixer (No Card)	COAGCUV1	Suitable for Thrombo Read + ONLY	1 Bag x 500 cuvettes (No Card)
Coagulation Cuvettes, Inc Mixer (With Card)	COAGCUV3	Suitable for Thrombo Read +, Fast + and Speed+ Box containing	5 Bags x 500 cuvettes (with Card)
Coagulation Cuvettes Dispo System, Inc Mixer (With Card)	COAGCUVD	Suitable for Thrombo Read+, Fast+ and Speed+ Box containing	5 x 100 cuvettes (with Card)
Thermopaper 57mm, 10 Rolls per carton	COAGCUVD	Suitable for Thrombo Read+, Fast+ and Speed+ Box containing	5 x 100 cuvettes (with Card)
Thermopaper 57mm, 10 Rolls per carton	COAGROLL	Suitable for Thrombo Fast+ and Thrombo Speed+	10 Rolls per carton

Immunoassay (CLIA) Analysers

CLIA Pro



- Semi-automatic.
- Automatic strip reader.
- Built in reference assures continuous calibration.
- Sensitivity/Detection Limit: HRP 1×10^{-18} moles.
- ALP 1×10^{-21} moles.
- Linear Dynamic Range: 106 RLU.
- Cross talk: Less than 2.5×10^{-4} .
- Detector: Photomultiplier (PMT).
- Spectral Response Range: 300 – 650nm.
- Peak Wavelength: 400nm.
- Detection Mode: Glow Luminescence.
- On-board printer.

CLIA Plus



- Semi-automated.
- Automatic plate reader.
- Vessel: 96 Wells in strip tray or plate.
- Detection Mode: Glow Luminescence.
- Sensitivity/Detection Limit: HRP 1×10^{-18} moles.
- ALP 1×10^{-21} moles.
- Linear Dynamic Range: 106 RLU.
- Cross talk: Less than 2.5×10^{-4} .
- Detector: Photomultiplier (PMT).
- Spectral Response Range: 300 – 650nm.
- Peak Wavelength: 400nm.
- Detection Mode: Glow Luminescence.
- PC Connection: USB.

Name	Catalogue Number	Description
CLIA PRO	CLIAPRO1	Microstrip Chemiluminescence Reader
CLIA PLUS	CLIAPLUS	Microplate Chemiluminescence Reader

Electrolyte Range

Electalyte-200/500

- Simplicity and Reliability • Plug-in reagent pack (Start-up kit includes everything needed).
- Smart software with colour touch screen and clear graphics.
- Step by step user prompts, reminders, warnings and error messages.
- Automatic sampling, analysis, calibration and washing.
- Results stored on board or downloaded via USB drive.
- In-built thermal printer for printed results.
- Optional auto sampler.
- Optional barcode reader.



Name	Catalogue Number	Methodology
Electalyte-200	ELECT200	Electrolyte Analyser (Na, K, Cl)
Electalyte-500	ELECT500	Electrolyte Analyser (Na, K, Cl, Ca, pH)

Haematology Analysers

Celldiff-3+

- Rapid test turnaround time at 80 tests per hour.
- Results displayed in the form of histogram.
- Easy to use with intuitive software.
- Reduced consumables cost.
- 18-parameters hematology report.
- Sample type: Whole blood.
- Sampling time: 45 secs.
- 3-part WBC differential, for various patient profiles in 45 seconds with no preparation time.
- Designed to promote lab efficiency.
- 4 USB ports.



Name	Catalogue Number	Methodology
Haematology CELLDIFF-3+	CELLDIF3	3 Part Differential, 18 Parameters
Haematology CELLDIFF-5+	CELLDIF5	5 Part Differential, 24 Parameters

Microscan

- Compact, standalone, 8-channel microplate reader.
- Touch screen interface and intuitive software.
- Rapid test turnaround time.
- On-board printer
- Single ELISA Plate read time > 13 secs.
- Bichromatic optics. Standard model includes four filters, six filters available.



Washer available on request

Bio-2+

- Fully automated ELISA microplate processor for low throughput applications.
- Total walk away system 2 hours 15 minutes, increasing lab efficiency
- LIMS connectivity.
- Open system.
- Easy to use with intuitive software.
- Assay performance with high quality disposable tips.
- Convenient programming of assay protocols.
- Proven reliability.



Name	Catalogue Number	Description
Innowash	FORTMWI1	Automatic Microplate Washer
Microscan	FORTMRS1	Automatic Microplate Reader
BIO-2 +	FORTBIO2	2 Plates Fully Automated ELISA Processor