

# TECHNICAL SPECIFICATIONS

## SYSTEM OVERVIEW

The new Ariya 100 semi-automatic clinical chemistry analyzer offers an enhanced experience with its innovative features and advanced capabilities. With the ability to scan the reagent pack for test parameter setup and an autowash function that effectively removes dirt from the flow cell, this analyzer is one of a kind that streamlines the biochemistry testing process while ensuring high performance setting a new standard in laboratory diagnostics, offering lab a powerful and reliable tool for accurate and efficient testing.

## OPTICAL SYSTEM

- Photometric range : -0.2 to 3.0 A
- Wavelength : 6 Standard Filters, 340, 405, 505, 546, 578, 630 nm (2 optional)
- Bandwidth : 5 nm
- Lamp : 12 V/20 W Halogen Lamp with auto-sleep function.  
User can replace the lamp without the need of service support
- Digital resolution : 0.0001A
- Optical measurement : Photodiode
- Settings : Mono-chromatic and Bi-chromatic

## FLUIDIC SYSTEM

- Sipper volume : 300 - 5000 uL
- Peristaltic pump : Continous flow system
- Flow rate : 10 mL/min
- Sipper indicator : Aspiration indicator light
- Purge : Air purge between test to avoid carry-over
- Auto-wash : Automated washing of flow-cell between each test to avoid carry-over and dirt cleaning

## TEMPERATURE

- Flow-cell : Peltier system for RT,  
25 °C, 30 °C, 37 °C
- Incubator : 37 °C, 23 position dry blocks
- Temp accuracy : +/- 0.1 °C

## CALIBRATION

- Factor
- Automatic 1-point standard
- Automatic 2-point standard
- Automatic linear regression upto 6 standards
- Automatic point-to-point upto 6 standars
- Automatic multi-calibration upto 6 standards (4PL, non-linear regression such as cubic Spline)

## PROGRAMMING

- Programming : QR code enabled automated test programming from reagent pack
- User programme : 200 Test programme

## FLOW-CELL

- Flow-cell : Special optical glass
- Volume : 32 uL (10mm- path length)
- Reaction volume: 300 uL
- Carryover : >1%
- Sample vessels : Flow-cell, 10 mm cuvette and 6 mm dia tube
- Sample type : Serum, Plasma and Urine

## METHODS

- Absorbance, End-Point, 2 Point-End, Kinetics, Fixed-Time, Differential, Turbidimetry, Coagulation
- With or without reagent blank for all methods
- Sample blank option

## QUALITY CONTROL

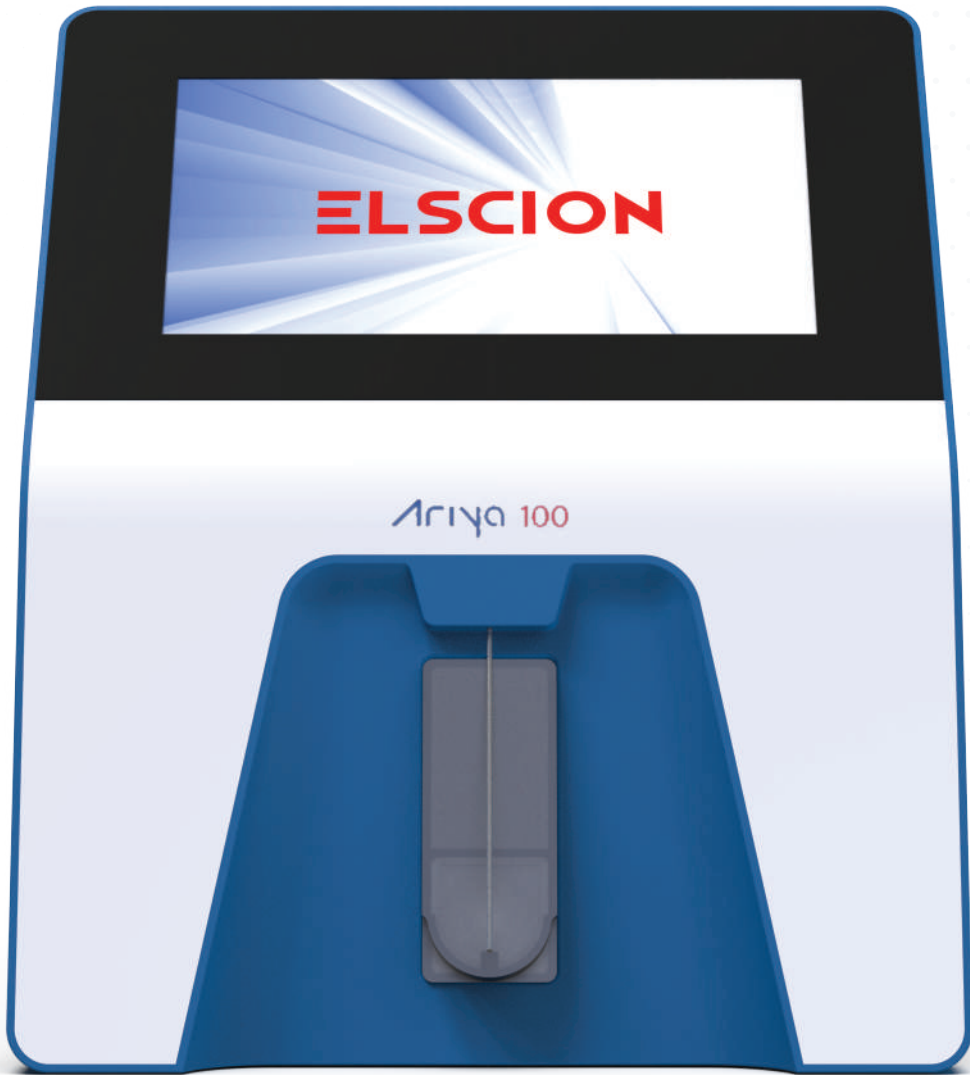
- QC level : Daily and Monthly multi-level QC per test
- Data analysis : QC survey of last 30 control measurement
- Plot option : Levey Jennings (LJ) control plot
- Error detection : Westgard rules based error detection

## INTERFACE

- Display : 7" Resistive touch display
- Port : 1 USB port for QR code scanner, 1 RS 232 port for LIMS connectivity
- Printer : 52 mm In-built thermal printer
- Storage : 5000 patient results, 30 results/QC level calibration history

## Semi-Automated Clinical Chemistry Analyzer

# Seamless Workflow. Unmatched Precision.



## DESIGN

**Modern aesthetic design**  
**Intuitive user interface**  
**Visually empowered logos**



## SPEED & PERFORMANCE

**Favourite test screen**  
**Carry-over free flow-cell**

Ariya 100 is one of a kind analyzer that offers QR-code enabled test programming and auto-wash function to minimize carry-over, streamlining speed and performance.



## ACCURACY



**State-of-the-art optics design**  
**Maintenance-free optical system**

High precision filters ensures extended lifespan and designed for accuracy and reliability for Biochemistry and Turbidimetric assays

## ACCESSORIES



37 °C Incubator



Printer



QR-code scanner

## CLINICAL CHEMISTRY REAGENTS



**Tailor-made chemistry reagents for Ariya 100**

Our clinical chemistry reagents are tailor-made with our Ariya 100 to perfection for superior accuracy and performance.