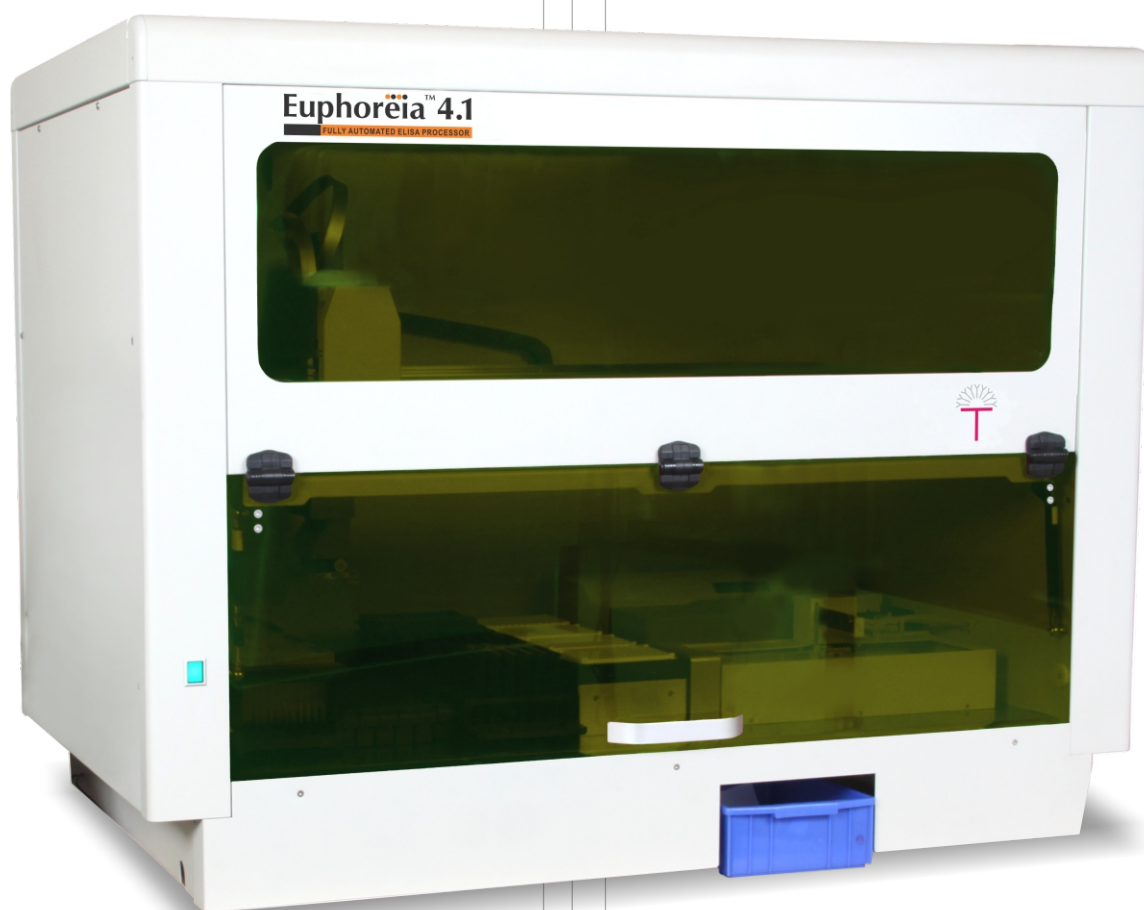




Speed
Accuracy
Precision



EuphorëiaTM 4.1

FULLY AUTOMATED ELISA PROCESSOR

Euphorëia™ 4.1

FULLY AUTOMATED ELISA PROCESSOR

With *High Speed Robotic Modular System.*

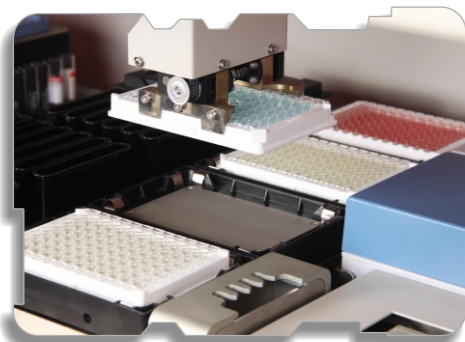
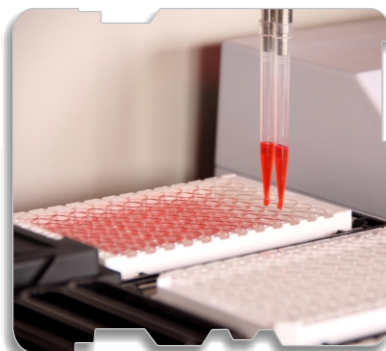
- High Speed Robotic Arm
- Robotic Washer
- Robotic Reader

HRM System connects three independent modules on a compact platform working simultaneously and independently to enhance the Speed, Accuracy and Precision of ELISA processor.

High Speed Robotic Arm

HRA performs two major functions i.e. pipetting of reagents and samples into the microplates and transfer of microplates from one module to another.

- Two Channel Pipetting System - Enhances pipetting speed.
- Intelligent Microplate Transporter - Transfers microplates from one module to another.



Robotic Washer

Washing manifold of Euphorëia 4.1 is designed for efficient washing with speed. The washing manifold is designed with independent needles for aspiration and Dispensing.



Robotic Reader

Euphorëia 4.1 is equipped with 8 channel reading unit with an inbuilt agitation facility before reading. It consists of 4 filters of 405, 450, 492, 630nm wavelength with two empty filter positions.



Pipette Tip Station

- 300µl / 800µl
- 96 x 4 racks

Microplate Cover

Microplate Loading Station

- 4 microplates capacity
- 4 independent incubators
- 4 independent shakers

High Speed Robotic Reader

Sample/Control Rails

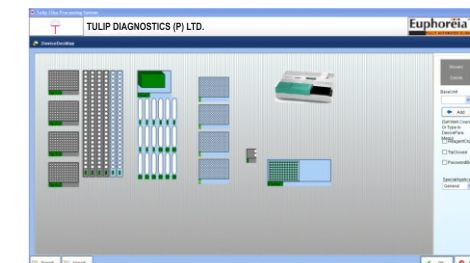
- 6 rails
- 6 x 24 sample/control positions

Reagent Tray

- 18 reagent positions
- Flexibility of 15ml & 60ml vials

High Speed Robotic Washer

- 8 wells washer
- 4+1 wash bottles

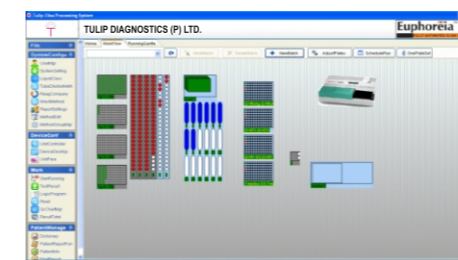
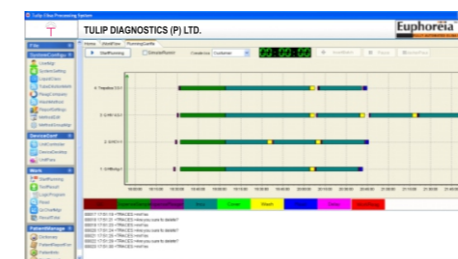


Microtip Waste Container

Flexible Modular Platform

Euphorëia 4.1 gives flexibility for user to customize the Modular Platform.

- Flexible loading of pipette tips - 300µl, 800µl or both.
- Flexible loading of samples, controls & calibrators in 6 rails of 24 positions each.
- Flexible loading of sample having throughput more than 120 tests per hour.
- Continuous loading of samples and microplates.
- Four plate loading positions with inbuilt incubator and Shaker. All incubators and Shakers are independent with programmable temperature, shake time and speed.
- 18 reagent positions with flexibility 15ml/60ml reagent vials.



Software

Euphorëia 4.1 is operated through Windows based Software. It allows user to configure the modular platform and controls the operations and interactions of the different modules on the platform. Westgard or L - J QC functions support automatic creation of quality control charts and validation.

TECHNICAL SPECIFICATIONS EUPHOREIA 4.1*

GENERAL

Type	Process the ELISA/EIA from pipetting to interpretation and print out of results
Main performance	Open system, Fully programmable, Walk away, Random access, Multi batch execution with Continuous loading facility
Self-check system	The machine executes a verification of it's hardware before it starts a new session
Maximum number of assays per microplate	12
Computer	Stand alone PC with standard configuration (minimum 2 USB ports)
Operating System	Windows
Connection with host computer	Bi-directional through a RS 232 port
Interfaces	Parallel (printer port) and RS 232 (bi directional port for connection with Host computer)

WASHER

Manifold type	8 well washer
Manifold needles	8-way dispensing channels and 8-way aspiration channels (16 pins)
Plate Type	Flat, U and V shaped bottom
Wash Cycles	Programmable
Soak Time	Programmable
Residual Volume	Less than 2µl per well
Number of wash buffer bottles	5 (4 + 1 D/W)

READER

Reading method	Single/Dual wavelength measurement
Wavelength range	From 400 to 750nm
Filter Configuration	405, 450, 492, 630nm + two empty filter positions
Measurement range	0.000 to 4.000 O.D.
Accuracy	± 1% or 0.007
Precision	CV < 0.5% (@ 0.3 – 1.5 O.D. 405nm) CV < 1.0% (@ 1.5 – 2.0 O.D. 405nm)

SAMPLER

Number of Pipetting Channels	2
Number of Syringes	2
Syringe volume	Up to 800µl
Tips	Non – conductive, disposable tips
Tip size	300µl /800µl
Pipetting Precision and Accuracy	Better than 1% CV at 10% syringe volume, based on gravimetric evaluation
Liquid detection	Pneumatic type
Carry over	Zero due to usage of disposable tips
Primary Sample capacity	Up to 144 positions (shared with Controls/Calibrators)
Maximum number of Controls/Calibrators	Up to 144 positions (shared with sample positions)
Maximum number of reagents	18 reagent positions - (15ml/60ml)

INCUBATOR

Number of incubators	4
Temperature Range	Programmable from Room temperature to 50°C
Temperature Accuracy	± 0.5°C at 37°C
Incubation Time	Programmable
Microplate shaking	Programmable speed and time

OTHERS

Dimensions (W x D x H)	1270 x 785 x 1000
Weight	180 Kg
Power Consumption	500 - 700 W
Voltage	220 V
Frequency	50 - 60Hz

ORDERING INFORMATION

Model	Euphoreia 4.1
Consumables	Reagent Vials- Large (60ml volume)
	Reagent Vials - Small (15ml volume)
	Tips- Large (800µl)
	Tips - Small (300µl)
	Standard / Control Vials

*Specifications are subject to change without prior information.

ISO 13485
Certified Company



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