

# DIA.BLOOD Duo

FULLY AUTOMATED HIGH THROUGHPUT

## ELISA Micro-plate Workstation

Designed for blood screening & large volume testing



DIA.BLOOD: OD Reader  
DIA.BLOOD DUO: Double Reading System  
OD & RLU (CLIA)

**A CE CERTIFIED COMBINATION OF KITS AND INSTRUMENT**

SCAN&WATCH



*Your IVD  
specialists!*



# DIA.BLOOD Duo

## Technical specs

**Hardware features integrated with touch-screen monitor, could be split in two, for easy transportation & installation**

Module conception

Plug & Play

Tip configuration

8 tips

Tip types

HDPE disposable tips (5-1000µl)

Syringe size

1000µl

Incubators

9 independent

Washer

3 independent

**Digital camera**

**Liquid sampling monitoring system/OPTIONAL** (available upon specific request)

**Liquid handling features**

Pipetting precision

Volume CV (%)

Standard volume

10 µl < 5%

100 µl < 3%

Liquid detection

Pressure sensor & Clot detector

Minimum volume detectable

Up to 200 µl in sample tube up to 500 µl in control, up to 2ml in reagent vial

**Sample loading range**

Sample loading range

Variable, starting with 8 sample tubes per grid up to 288 (36 grids)

Sample session processing

Variable, starting with 8 samples up to 792 samples depending on work-list (modality continuous loading)

Strip handling

Variable, starting with 1 assay per plate up to 4 assays per plate (modality optimization loading)

Plate session processing

Variable, starting with 9 assays up to 36 assays per session

Sample input format

Sample tube diameter from approx. 10 up to 12 mm.

Pre-dilution option

3 different plates sites for common or exclusive pre-dilution

**Sample & Reagents**

**Dispensing verification system (CD Camera)** (available upon specific request)

**Bar-code Identification**

Supported format

Code 39, Code 128, Interleaved 2 of 5, Coda Bar, HIBC code (Health Industry Bar-Code)

Bar-code evaluation

Sample codification, plate codification, kit type codification with recording of lot number & lot expiry date

**Incubator module**

Incubator modules

**All incubators are integrated in modules with washer**

Shaking

3 modules that consist of 3 independent incubators

Temperature range

Independent shaking for each position with variable speed (350 rpm to 700 rpm)

From 20°C (room temperature) up to 40°C with accuracy of +/- 0.5°C

**Washer module**

Washer module

**All modules are integrated with incubator**

Manifold

3 washer

Wash channel

8-channel manifold

4 common channels for wash buffer which are linked to 4 containers of 5 L.

Wash mode

and 2 containers of 10 L for waste/each with loading cell.

Strip or plate mode with or without soaking time

**Reader**

Light source

Led-light (lifetime guarantee)

Measurement range

0-4 0 OD

Wavelength selection

400-700nm: 2 filters are supplied (selection between 5 of which:

405nm, 450nm, 492nm, 530nm, 630nm) upgradable up to 4 filters

Single wavelength 10 seconds; dual wavelength 15 seconds

Measurement time

**OPTIONAL** (available upon specific request)

**Chemiluminescence Reader**

Measurement range

**1 to 1 million RLU**

Measurement time

**1 minute**

**Software**

Interface

**Operating System Windows 7**

Diagnostic

Ethernet

Remote access control for: firmware upgrade, analytic script test upgrade, auto-diagnostic check & report

**Dimension**

Height

1940 mm

Width

2400 mm.

Depth

1020 mm.

Weight

450 kg.

**Power supply requirements**

Power: 1200VA Voltage: 220 V Frequency: 50/60 Hz

**Regulations compliance**

CE Marked, in compliance with EMC-BT (EN 61326-1, EN 61326-2-6, EN 61010-1

EN 61010-2-081+a1, EN 61010-2-101) as well as the directive of IVD 98/79/CE

Temperature 15°C-50°C, relative Humidity 30-80%

**Operating lab condition**



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EN ISO 13485:2013 Certified



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