

Optilite[®]



Technical Specifications

 **Binding Site**
part of Thermo Fisher Scientific

Dimensions & weight

Analyser

37" / 940 mm (W)

27.6" / 700 mm (D)

24.4" / 620 mm (H)

242 lbs / 110 kg

PC

3.65" / 92.6 mm (W)

11.5" / 292 mm (D)

11.4" / 290 mm (H)

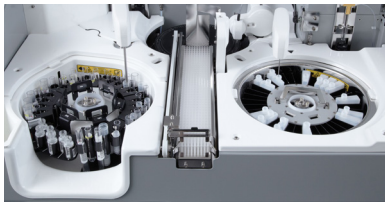
Screen

19.5" touchscreen

11.57 lbs / 5.26 kg

Printer

Supplied, specifications are country-dependent



Environmental specifications

- ✓ Thermal output: 680BTU / 0.2KW
- ✓ Noise emission: average at 1m < 60 dB(A)
- ✓ Relative humidity: 40-80%, non-condensing
- ✓ Ambient temperature: 18-30°C / 64.4-86°F
- ✓ Altitude: <2000m above sea level



Power and water consumption

- ✓ Self contained: no need for external plumbing connections
- ✓ 100-240V \pm 10%
- ✓ 50-60Hz \pm 5% 300W
- ✓ UPS: 230V / 110V
- ✓ De-ionised water: max 2.5 L/hour
- ✓ Up to 8 L waste capacity
- ✓ Level detection for solid and liquid waste

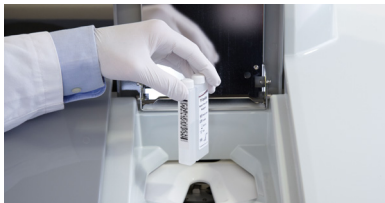


Software

- ✓ Windows® 10 Operating System
- ✓ >20 languages available
- ✓ Levy-Jennings and Westgard rules
- ✓ LIS-connection: RS-232C bi-directional interface
- ✓ ASTM interface protocol
- ✓ Defined roles and access levels
- ✓ External database back-up
- ✓ Results archiving for long-term storage
- ✓ User-defined auto-validation rules
- ✓ Customisable report printing
- ✓ Algorithmic flagging of non-linear samples

Operating principle

- ✓ Continuous loading of up to 360 disposable cuvettes
- ✓ Reaction temperature $37^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$
- ✓ Measuring principle: turbidimetry
- ✓ 11 discrete wavelengths
- ✓ Xenon lamp
- ✓ 3 methods of antigen excess detection: reaction kinetics, sample addition, control addition

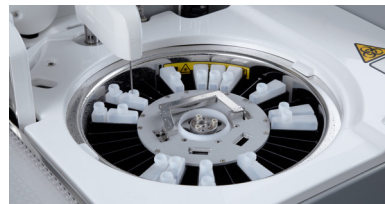


Regulatory compliance

- ✓ IVDR Class A
- ✓ ISO 13485 and ISO 14971
- ✓ Supports ISO accreditation
- ✓ FCC CFR 47 part 15 Subpart B, Class B
- ✓ EN 61326-1 and EN 61326-2-6
- ✓ RoHS directive 2011/65/EU

Samples

- ✓ 54 positions (6 sample rack positions)
- ✓ Continuous loading/unloading, STAT option
- ✓ Auto-dilution to end result
- ✓ Sample types: serum, plasma, urine, CSF
- ✓ Range of primary and secondary tubes and disposable cups: 0.5 mL, 2.0 mL cups and sample tubes (diameter 12-16 mm, length 75-100 mm)
- ✓ Dedicated rack for false-bottom tubes
- ✓ Accepted barcodes: code 128, code 39, USS codabar and interleaved 2 of 5
- ✓ Liquid level detection
- ✓ Dilution range: 1:0 to 1:10 000
- ✓ Sample aspiration volume: 12-58 μL
- ✓ Single assay maximum throughput: 136 tests/hour
- ✓ Multiple assay average throughput: 120 tests/hour



Reagents

- ✓ 36 dual-reagent positions
- ✓ Continuous loading/unloading
- ✓ On-board cooling
- ✓ Level detection
- ✓ Fully-automated, barcode identification of reagent lot number, expiry date, vial number, assay parameters
- ✓ Supports pre-calibration of new lots
- ✓ Optional third-party assay channel license

Maintenance

- ✓ Daily maintenance: 5 min
- ✓ Weekly maintenance: 15 min
- ✓ Monthly maintenance: 30 min
- ✓ Dedicated maintenance fluids required (IK 703, 704, 705)

Optilite[®]

Simplified workflow for special protein testing

Unique menu with over 50 assays

3 methods for antigen excess detection

Fully automated dilutions to end result

Compact, robust benchtop analyser

Fast and consistent throughput

Service and support excellence



Read more about the Optilite system
and the complete assay menu

Optilite is a registered trademark of The Binding Site Group Ltd (Birmingham UK) in certain countries.

© 2022, The Binding Site Group Ltd, Birmingham, UK.



 **Binding Site**
PART OF THERMO FISHER SCIENTIFIC

MKG1073
October 2023
Version 2