

BOECO HIPO MPP-96 MICROPLATE PHOTOMETER

Microplate ELISA Photometer HiPo is a compact table top device for measuring the results of ELISA and micro- biological studies using 96-well microplates. Instrument is controlled and outputs data via computer. HiPo is supplied with analysis software QuantAssay. QuantAssay features:

- ▶ Analysing any ELISA assay can be included via robust Assay Editor
- ▶ Avidity assays
- ▶ Multiplex assays with up to different 7 assays on one plate
- ▶ Qualitative assay with up to 8 controls
- ▶ Quantitative assay with up to 20 standards
- ▶ Powerful BestFit function for fitting the best calibration curve
- ▶ Results saving, loading, exporting



Specification

Detection mode:	Absorbance
Light source:	LED, self-calibrating
Photodetector:	8 silicon photodiodes
Plate type:	96-well microplates (including strip-well microplates)
Reading Speed:	5-8 sec. per wavelength
Measurement modes:	Endpoint, kinetic and multi-label measurements
Measurement channels:	8
Reference channel:	1
Measurement range:	0 – 4.3 OD
Resolution:	0.0001 OD
Wavelength range:	400 – 750 nm
Wavelength selection:	Standard filters 405, 450, 492 and 620 nm. Up to 8 filters on wheel (up to 4 custom filters can be fitted on demand)
Shaking:	4 amplitudes, 4 speeds
Software:	QuantAssay
PC system requirements:	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8, 2.0 USB
Overall dimensions:	(W x D x H) 140 x 300 x 130 mm
External power supply:	Input AC 100–240 V 50/60 Hz, Output DC 12 V
Weight:	

Accuracy at 450 / 492 nm

0.000 – 2.000 OD	≤ (0.5 % ± 0.010 OD) typical
2.000 – 3.000 OD	≤ (1 % ± 0.010 OD) typical

Precision / Reproducibility at 450 / 492 nm

0.000 – 2.000 OD	≤ (0.5 % ± 0.005 OD)
2.000 – 3.000 OD	≤ (1.0 % ± 0.005 OD)

Linearity

0.000 – 2.000 OD	≤ 1.0 %
2.000 – 3.000 OD	≤ 1.5 %

Code	Description
BOE 8077000	HiPo MPP-96 Microplate Photometer, 100-240 V, 50/60 HZ

BOECO IW-8 INTELISPEED MICROPLATE WASHER

the Intelispeed Washer IW-8 is designed for washing of standard flat-bottom 96 well plates and microstrips. The unit is fully programmable ensuring multi-step solution ripening, aspiration (aspiration, combination of aspiration/liquid dispensing and soaking, as well as soaking cycle during a particular period of time).

The unit has 100 user-defined programs. Standard version is supplied with 8-channel washing head for dispensing/aspiration, 3 bottles for washing and rinsing solutions, a waste bottle and bottle with filter. Optional 4-channel washing solution weight logger, 4 CHW Logger is available.

The unit is designed for washing standard 96-well plates during analyses.

The unit provides:

- ▶ Washing mode
- ▶ Rinsing mode
- ▶ Mixing mode
- ▶ Double aspiration
- ▶ Possibility of additional solution mixing during time gap between two work cycles
- ▶ Possibility to use microtest plates by different manufacturers, ensured by automated plate set up (adjusting to different depths of plate wells)
- ▶ Plate and strip washing mode
- ▶ User-defined programs with adjustable parameters
- ▶ Saving work programs

The unit is designed for use in closed laboratory rooms at temperatures from +10 to +35° and relative humidity up to 80% at +25° decreasing linearly to 50% relative humidity at 35°C

4-channel washing solution weight logger, 4 CHW Logger provides automatic control of rinsing solution and waste volumes. The washer shows remaining volume for each bottle as percentage and gives a warning message in case of low solution volume or full waste bottle when 4 CHW Logger is connected.

Specification

Detection mode:	Absorbance
Minimum dispense volume:	25 µl
Maximum dispense volume:	1600 µl
Dispense increment:	25 µl
Dispensing accuracy:	±2.5%
Allowed residual liquid volume in plate well:	not more than 2 µl
Number of wells washed simultaneously:	8
Number of washing cycles for each channel:	1–15
Aspiration time:	0.2–3 s
Aspiration/dispensing speed:	3 levels
Max. number of channels in a program:	2
Soaking time:	0–300 s (increment 10 s)
Shaking time:	0–150 s (increment 5 s)
Number of washed rows:	1 – 12
Time of plate single wash (350 µl), no more:	45 s
Number of programs:	100
Plate platform and washing head movement:	automated
Indication of operation modes:	8-line LCD
Dimensions:	375 345 180 mm
Weight with accessories:	11 kg
External power supply:	DC 12 V, 5 A
Consumed power, not more:	60 W

4 CHW Logger Specifications

Max. loading per scale cup:	2 kg
Overall dimensions:	267 × 252 × 97 mm
Weight:	3 kg



Code	Description
BOE 8078000	IW-8 Intelispeed Microplate Washer, 100-240 V, 50/60 HZ incl. bottles & external power supply unit
BOE 8078010	4 CHW logger