

HiPo MPP-96, Microplate Photometer

Microplate Photometer HiPo is a compact tabletop device for measuring the results of ELISA and microbiological studies in 96-well microplates. Photometer is controlled and outputs data via computer. An extensive range of additional interference filters is available (with average increment of 10 nm).

The device is supplied with specialized software **QuantAssay**. Features of **QuantAssay** software:

- ELISA assays of any complexity can be carried out via robust assay editor with help of Assay Wizard
- · Quantitative assay includes up to 20 standards
- · Avidity/Affinity assays
- · Multiplex assays with up to 7 assays on one plate
- · Qualitative assay includes up to 11 controls
- BestFit function for selecting the best calibration curve
- · User friendly interface: get your results in 3 clicks
- · Save, load and export results
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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 s per wavelength						
Measurement modes	Endpoint						
Measurement channels	8						
Reference channel	1						
Measurement range	0 – 4.3 OD						
Resolution	0.001 OD						
Wavelength range	400 – 700 nm						
Wavelength selection	up to 8* filters on wheel standard filters 405, 450, 492 and 620 nm						
Shaking	4 amplitudes, 4 speeds						
Software	QuantAssay						
PC system requirements	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8, USB						
Overall dimensions (W \times D \times H) 140 × 300 × 130 mm						
Weight	4.6 kg						
External power supply	Input AC 100–240 V 50/60 Hz, Output DC 12 V						
\star — It is possible to install up to 4 additional filters on request. Additional filters are							

* — It is possible to install up to 4 additional filters on request. Additional filters are available in two specifications: optical absorption not less than 3.5 OD or 4.3 OD

ORDERING INFORMATION: Cat. number

HiPo MPP-96 BS-050108-A02

Optional accessories:

OD Plate, Verification tool BS-050108-AK
Additional filtres* On request

NEW PRODUCT









Accuracy (405, 450, 492, 620 nm)

0.000 – 2.000 OD	\leq (0.5 % \pm 0.010 OD) typical						
2.000 – 3.000 OD	\leq (1 % \pm 0.010 OD) typical						
Precision / Reproducibility (405, 450, 492, 620 nm)							
0.000 – 2.000 OD	\leq (0.5 % \pm 0.005 OD)						
2.000 - 3.000 OD	\leq (1.0 % ± 0.005 OD)						





Quant Assay, Software for MPP-96



Software video is available on the website

ELISA assays of any complexity can be carried out via robust assay editor with help of Assay Wizard:

Channel 1
Channel 2
Channel 3 Channel 4
-
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Qualitative assay includes up to 11 controls;

Results can be outputted as Positive/Negative or Positive/Gray Zone/Negative;

Gray zone can be set as symmetric and non-symmetric; Positivity ratio can be outputted



Avidity/Affinity results be outputted as Positive/Negative or Positive/Gray Zone/Negative;

Avidity index margins can be easily set; Avidity Index can be outputted



User friendly interface: get your results in 3 clicks: Choose an assay, a template and press Play



Save, load and export results Creates reports: Excel, PDF, CSV

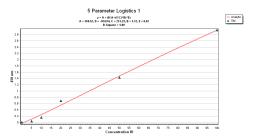


Quantitative assay includes up to 20 standards; User can choose Standard/Reverse type of curves



BestFit function for selecting the best calibration curve from following models:

4/5 Parameters logistics, Piece-wise linear, Linear, Index/Logarithm/Exponent regression models



Install up to 7 assays on one plate by using multiplex

	1	2	3	4	5	6	7	
A	Smp1							
	0	1	2	3	4	5	6	
В	Smp2							
	0	1	2	3	4	5	6	
C	Smp3							
	0	1	2	3	4	5	6	

Easy fill of the samples



PDF report contains: Experiment information, Results table, List of variables and it's calculations, Interpretation parameters

								Results					
Cell	Туре	Sample Name	ΑМ	Group	OD 450 nm	Result 1	Result 2	Given Concentration	Mean Concentration	Calculated Concentration	Mean (OD)	Standard Deviation (OD)	Coefficient of Variation (OD
A1	80	Std S0			0.008	OK		0 IU	1.24 IU	1.24 IU	0.008	0.000	0.00%
A2	SO	Std S0			0.008	OK		0 IU	1.24 IU	1.24 IU	0.008	0.000	0.00%
A3	T1	Smp1		1	1.296	In Range			45.21 IU	44.05 IU	1.332	0.036	2.70%
Α4	T1	Smp1		1	1.368	In Range			45.21 IU	46.38 IU	1.332	0.036	2.70%
A5	T9	Smp0		9	1.915	In Range			62.62 IU	64.30 IU	1.865	0.051	2.71%
Aß	T9	Smp9		9	1,814	In Range			62.62 IU	60.95 IU	1.865	0.051	2.71%
A7	T17	Smp17		17	1.581	In Range			54.14 IU	53.29 IU	1.607	0.026	1.62%
A8	T17	Smp17		17	1.633	In Range			54.14 IU	54.99 IU	1.607	0.026	1.62%
A9	T25	Smp25		25	2.592	Out of Range			119.57 IU	87.51 IU	3.456	0.864	25.00%
A10	T25	Smp25		25	4.320	Out of Range			119,57 IU	155,56 IU	3.456	0.864	25.00%
A11	T33	Smp33		33	0.810	In Range			28.47 IU	29.47 IU	0.810	0.000	0.00%
412	T33	Smp33		33	0.810	In Range			28.47 IU	28.47 IU	0.810	0.000	0.00%
B1	S1	Std S1			0.038	OK		SIU	2.48 IU	2.48 IU	0.038	0.000	0.00%
B2	51	Std S1			0.038	OK		5 IU	2.48 IU	2.48 IU	0.038	0.000	0.00%
83	T2	Smp2		2	1.080	In Range			38.08 IU	37.12 IU	1.110	0.030	2.70%
84	T2	Smp2		2	1.140	In Range			38.08 IU	39.04 IU	1.110	0.030	2.70%
85	T10	Smp10		10	1.596	In Range			52.41 IU	53.78 IU	1.554	0.042	2.70%
86	T10	Smp10		10	1.512	In Range			52.41 IU	51.04 IU	1.554	0.042	2.70%
87	T18	Smp18		18	1.318	In Range			45.46 IU	44.76 IU	1.340	0.022	1.61%
88	T18	Smp18		18	1.361	In Range			45.46 IU	46.15 IU	1.340	0.022	1,61%
B9	T26	Smp26		26	2.160	In Range			97.84 IU	72.54 IU	2.880	0.720	25.00%
B10	T26	Smp26		26	3.600	In Range			97.84 IU	125.26 IU	2.880	0.720	25.00%
B11	T34	Smp34		34	0.790	In Range			27.83 IU	27.83 IU	0.790	0.000	0.00%
812	T34	Smp34		34	0.790	In Range			27.83 IU	27.83 IU	0.790	0.000	0.00%
C1	92	Std 92			0.160	OK		10 IU	7.01 IU	7.01 IU	0.160	0.000	0.00%
C2	82	Std 52			0.160	OK		10 IU	7.01 IU	7.01 IU	0.160	0.000	0.00%
C3	T3	Smp3		3	0.900	In Range			32.15 IU	31.35 IU	0.925	0.025	2.70%



OD Plate, verification instrument for MPP-96 HiPo



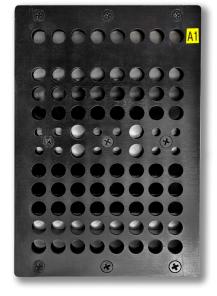
OD Plate is the quality verification instrument for microplate photometer MPP-96 HiPo. The instrument is designed to verify the accuracy and precision of measurements of the photometer at 6 levels of optical density: 0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD. The instrument is supplied with the following verification wavelengths: 405, 450, 492, 540, 570, 620 and 650 nm. Additional verification wavelengths are available in the range from 400 to 700 nm.

Instrument is provided in a shockproof container with an USB flash drive containing:

- Copy of measurement results in an accredited laboratory
- · User manual

Optical density levels	0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD					
Available verification wavelengths range	400 – 700 nm					
Standard verification wavelengths	405, 450, 492, 540, 570, 620, 650 nm					
Instrument dimensions	$128 \times 86 \times 12 \text{ mm}$					
Net weight	0.2 kg					







Cat. number

OD Plate, Verification tool

BS-050108-AK