IW-8, Intelispeed Washer

DESCRIPTION

Intelispeed Washer IW-8 is designed for washing of standard flat-bottom (two point aspiration) and U-shape (only in single point aspiration) 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.

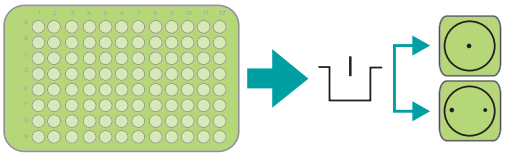
The unit is designed for washing standard 96-well plates during analyses.

The unit provides:

- Washing mode;
- Rinsing mode;
- Mixing mode;
- Single point, two point 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.

ORDERING INFORMATION:

	Cat. number
IW-8	BS-060106-AAI
IW-8 IVD	BS-060106-IVD1
4 CHW Logger	BS-060102-AK



IW-8, Intelispeed Washer

4-channel washing solution weight logger, **4 CHW Logger** provides automatic control of rinsing solutions and waste volume. 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.

4 CHW Logger Specifications:

Max. loading per scale cup	2 kg
Dimensions	267 × 252 × 97 mm
Weight	3 kg

Choice of 3 washing liquid bottles	
Minimum dispense volume	25 µl
Maximum dispense volume	1,600 µl
Dispense increment	25 µl
Dispensing accuracy	±2.5%
Allowed residual liquid volume not more than 2 µl in plate well	
Number of wells washed simultaneously	8
Number of washing cycles for each channel	1–15
Timer sound signal	yes
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), not more	45 s
Number of programs	101
Plate platform and washing head movement	automated
Indication of operation modes	8-line LCD
Dimensions (W × D × H)	375 × 345 × 180 mm
Weight with accessories	9.6 kg
External power supply	DC 12 V, 5 A
Consumed power	22 W

The unit is designed for use in closed laboratory rooms at temperatures from +4 to +40 °C and relative humidity up to 80% at +31°C decreasing linearly to 50% relative humidity at 40 °C

3D-IW8, Inteliwasher

Premium
Product Class

CE IVD Certification available

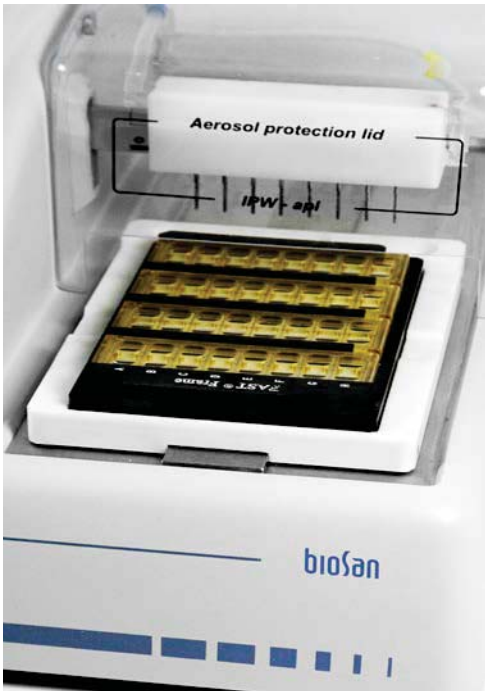
Product video is available on the website

DESCRIPTION

Inteliwasher **3D-IW8** series microplate washer is designed for washing various types of standard 96-well microtitre plates, microstrips as well as microarrays on FastFRAME (rectangular well shape). It is suitable for washing wells with different bottom shapes: flat, U-shape and V-shape. 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). Dispense system of liquid dosage for each channel separately.

The unit provides:

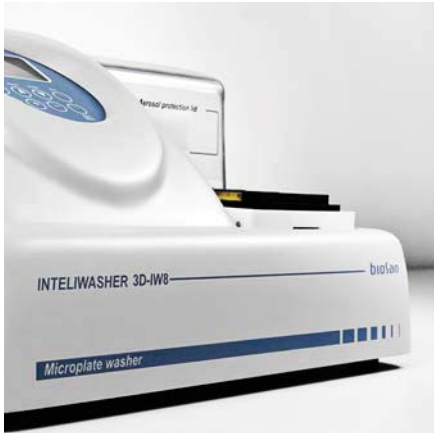
- Washing mode;
- Rinsing mode;
- Mixing mode;
- Single point, two point, circular (circle or rectangular path) aspiration;
- Possibility of additional solution mixing during time gap between two work cycles;
- Possibility to use microtest plates by different manufacturers, ensured by automated plate set up (adjusting to different depths of plate wells);
- Round-bottom plate and strip washing mode;
- Possibility of user-defined programs with adjustable parameters.



ORDERING INFORMATION:

	Cat. number
3D-IW8	BS-060102-AAI
3D-IW8 IVD	BS-060102-IVD1
4 CHW Logger	BS-060102-AK

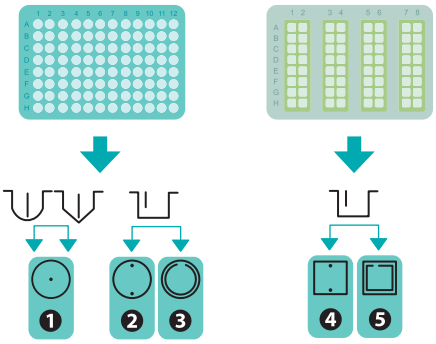
3D-IW8, Inteliwasher



The unit has 50 programs divided into 5 following aspiration categories (see figure bellow):

1. **Type 1** (1.0–1.9) **IPF96 U/V** is intended for round and V-shape immunoplates, 1 point aspiration.
2. **Type 2** (2.0–2.9) **IPF96 FLAT-2** is intended for flat-bottom shape immunoplates, 2 point aspiration.
3. **Type 3** (3.0–3.9) **IPF96 FLAT-C** is intended for rectangular shape immunoplates, full-circle aspiration direction.
4. **Type 4** (4.0–4.9) **FastFRAME-2** is intended for multi-slide plate* with rectangular wells, 2 point aspiration.
5. **Type 5** (5.0–5.9) **FastFRAME-C** is intended for multi-slide* plate with rectangular wells, full-square aspiration direction.

* — The **FastFRAME** multi-slide plate or analog plate of another manufacturer, that is compatible with standard 25×76 mm (1×3 inch) glass slides.



SPECIFICATIONS

Minimum dispense volume	25 µl
Maximum dispense volume	1,600 µl
Dispense increment	25 µl
Dispensing accuracy	±2.5%
Allowed residual liquid volume in plate well, not more	2 µl
Number of wells washed simultaneously	8
Number of washing cycles	1–15
Timer sound signal	yes
Aspiration time	1–3 s
Final aspiration time	1–3 s
Aspiration/dispensing speed	3 levels
Max. number of channels in a program	2
Choice of 3 washing liquid bottles	
Soaking time	0–300 s (increment 10 s)
Shaking time	0–150 s (increment 5 s)
Number of washed rows	1–12
Time of one plate wash (300 µl), not more	45 s
Number of programs	50
Plate platform and washing head movement	automated
Indication of operation modes	LCD, 8-line
Dimensions (W×D×H)	375×345×180 mm
Weight with accessories	9.9 kg
External power supply	Input AC 100–240 V 50/60 Hz, Output DC 12 V
Input current/ power consumption	12 V, 1.8 A / 22 W
The unit is designed for use in closed laboratory rooms at temperatures from +4°C to +40°C and relative humidity up to 80% at +31°C decreasing linearly to 50% relative humidity at 40°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.

4 CHW LOGGER SPECIFICATIONS:

Max. loading per scale cup	2 kg
Dimensions	267 × 252 × 97 mm
Weight	3 kg

HiPo MPP-96, Microplate Photometer NEW

DESCRIPTION

Microplate Photometer HiPo is a compact tabletop device for measuring optical density — 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
- Creates visual reports

Smart Plus Product Class

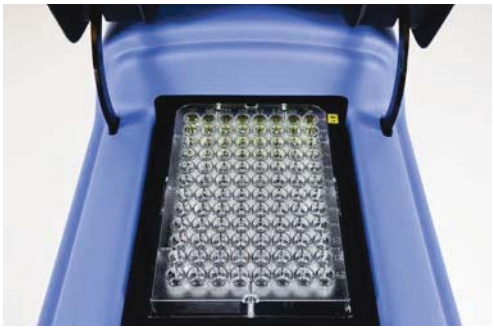
USB connection

Product video is available on the website

SPECIFICATIONS

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, Kinetic
Measurement channels	8
Reference channel	1
Measurement range (max)	0–4.3 OD (with standard preinstalled filters 0–3,5 OD)
Resolution	0.0001 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/7/8/10, USB
Overall dimensions (W×D×H)	140 × 300 × 130 mm
Weight	4.6 kg
External power supply	Input AC 100–240 V 50/60 Hz, Output DC 12 V

* — 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



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

ORDERING INFORMATION:

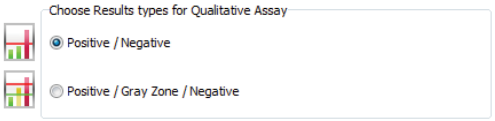
	Cat. number
HiPo MPP-96	BS-050108-A02
Optional accessories:	
OD Plate, Verification tool	BS-050108-AK
Additional filters*	On request

Quant Assay, Software for MPP-96

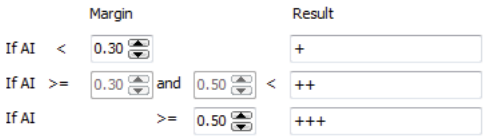
Software video
is available on the website

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

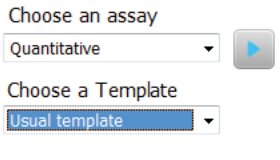
Qualitative assay includes up to 11 controls;
Results can be outputted as Positive/Negative or Positive/Gray Zone/Negative;
Gray zone can be set as symmetric and non-symmetric;
Positivity ratio can be outputted



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

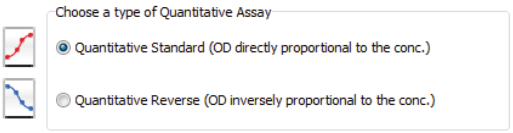


User friendly interface: get your results in 3 clicks:
Choose an assay, a template and press Play

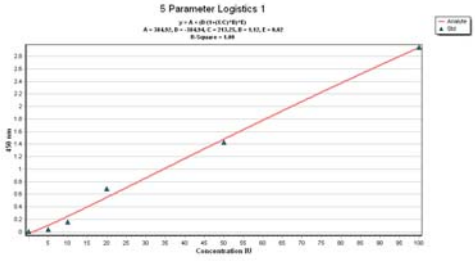


Save, load and export results
Creates reports: Excel, PDF, CSV

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



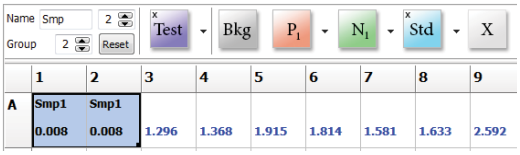
BestFit function for selecting the best calibration curve from following models:
4/5 Parameters logistics, Piece-wise linear, Linear, Index/Logarithm/Exponent regression models



Install up to 7 assays on one plate by using **multiplex**

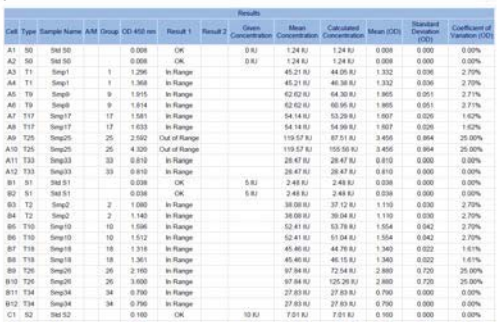
	1	2	3	4	5	6	7
A	Smp1 0	Smp1 1	Smp1 2	Smp1 3	Smp1 4	Smp1 5	Smp1 6
B	Smp2 0	Smp2 1	Smp2 2	Smp2 3	Smp2 4	Smp2 5	Smp2 6
C	Smp3 0	Smp3 1	Smp3 2	Smp3 3	Smp3 4	Smp3 5	Smp3 6

Easy fill of the samples

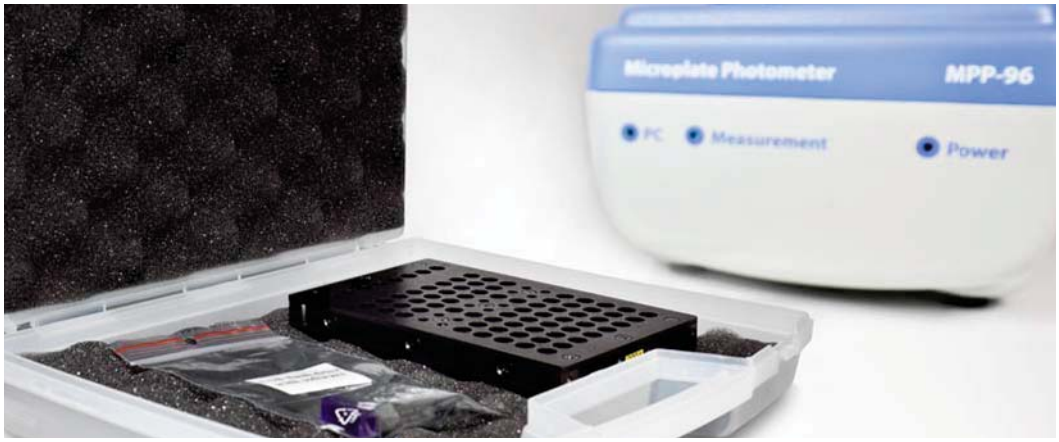


	1	2	3	4	5	6	7	8	9
A	Smp1 0.008	Smp1 0.008	1.296	1.368	1.915	1.814	1.581	1.633	2.592

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



OD Plate, Verification Instrument for MPP-96 HiPo

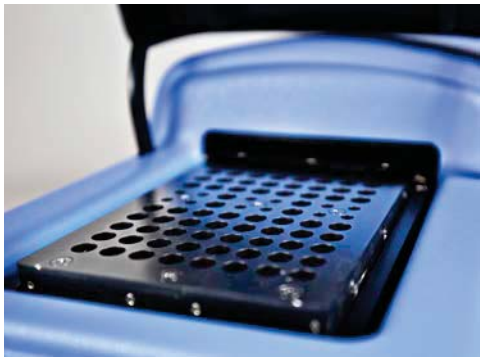


DESCRIPTION

OD Plate is the measurement 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 nominal optical density: 0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD. The instrument is supplied with the following verification wavelength range: 405–700 nm.

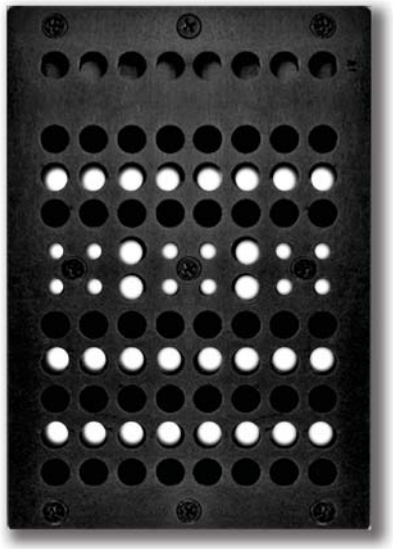
Instrument is provided in a shockproof container with an USB flash drive containing:

- Copy of measurement results
- User manual



SPECIFICATIONS

Nominal optical density levels	0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD (±0.1 OD)
Verification wavelength range	405, 414, 450, 480, 492, 515, 540, 550, 560, 568, 580, 594, 620, 630, 650, 690, 700 nm
Instrument dimensions	128 × 86 × 12 mm
Net weight	0.3 kg



ORDERING INFORMATION:

	Cat. number
OD Plate, Verification tool	BS-050108-AK