

# Zoom Microplate Washer

The Zoom Washer is a versatile and easy-to-use microplate washer for 96- and 384-well plates. Flexible user-defined settings make the Zoom Washer adaptable to all your microplate washing needs. The selectable dispense flow rate, aspirate time and aspirate tips positioning make the Zoom Washer a perfect tool for a variety of applications ranging from vigorous ELISA washing to gentle cell washing.

The self-emptying wash liquid evacuation system discards used wash fluids in unattended mode. It supports a constant aspirate flow rate during the wash cycle. The flow rate can be set as high as 120 l/min or can be significantly reduced to facilitate gentle cell washing. The discarded wash fluid is captured by a self-emptying waste trap. The trap is capable of automatically introducing the decontamination reagent. The decontaminated waste is continuously drained during washer operation.

When equipped with an optional Dispense Module, the Zoom becomes more than a washer but a modular liquid handling workstation for 96- and 384-well plates processing.

The optional Dispense Module allows for an immediate reagent addition after or between wash cycles. Flexible programming options enable the user to choose between wash, wash-dispense or just dispense protocols. Shake and soak time options further extend the capabilities of the Zoom Washer.



- **Fast: 3 x 300  $\mu$ l wash in 17 s.**
- **Programmable 3-dimensional aspirating tips positioning during the wash cycle.**
- **Optional Valve Module for automated switching between up to four wash fluids.**
- **Standard wash and Superwash (continuous flow) modes.**
- **Small instrument footprint – easily fits in hoods or robotic systems.**
- **Self-emptying liquid waste evacuation system.**

# Zoom Microplate Washer

## Performance Specifications

<b>Microplate Types</b>	96- and 384-well, standard height and low profile.
<b>Wash Manifold</b>	96-channel.
<b>Dispense Accuracy</b>	± 2 % typical @ 50–300 µl range.
<b>Dispense Precision</b>	≤ 2 % CV @ 200 µl. ≤ 3 % CV @ 100 µl. ≤ 4.5 % CV @ 50 µl.
<b>Wash Volume</b>	1–2000 µl selectable in 1 µl increments.
<b>Residual Volume</b>	< 2 µl/well.
<b>Wash Fluid Flow Rate</b>	1–7.
<b>Aspirate Tip Descent Speed</b>	Slow/Medium/Fast.
<b>Wash Mode</b>	Regular and Superwash.
<b>Aspirate Mode</b>	Regular and 3-D (3-dimensional).
<b>Soak Time</b>	0–99 s.
<b>Number of Programs</b>	1–99.
<b>Wash Cycles per Program</b>	1–99.
<b>Wash Fluid Selection (Option)</b>	Automatic switching for up to 4 wash fluids.
<b>Plate Processing Speed</b>	1 cycle 300 µl: 7 s (96-well plate). 3 cycles, 300 µl each: 17 s (96-well plate). 3 cycles, 75 µl each: 38 s (384-well plate).

## General Specifications

<b>Dimensions (W x D x H)</b>	38 x 56 x 36 cm; 15 x 22 x 14 inch.
<b>Weight</b>	17 kg; 48 lb.
<b>Power Consumption</b>	80 VA.
<b>Power Requirements</b>	230V 50 Hz; 115V 60 Hz.
<b>Interface</b>	USB, Serial interface (RS-232).
<b>Operating Temperature</b>	10–40° C, 50–104° F.

Titertek Instruments, Inc  
330 Wynn Drive, Ste. 100  
Huntsville, AL 35805, USA  
Phone: (256) 859 8600  
Toll Free: 888 848 3783  
Fax: 256 850 8671  
E-Mail: [inquiry@titertek.com](mailto:inquiry@titertek.com)  
Internet: [www.titertek.com](http://www.titertek.com)

Berthold Detection Systems GmbH  
Bleichstrasse 56–68  
D-75173 Pforzheim/Germany  
Phone: +49 (0) 72 31 92 06-0  
Fax: +49 (0) 72 31 92 06-50  
E-Mail: [contact@berthold-ds.com](mailto:contact@berthold-ds.com)  
Internet: [www.berthold-ds.com](http://www.berthold-ds.com)

**Titertek** 