

# Dispense Module for Zoom Washers

The Dispense Module is an optional plug-and-play device for the Zoom and the Zoom HT Microplate Washer.

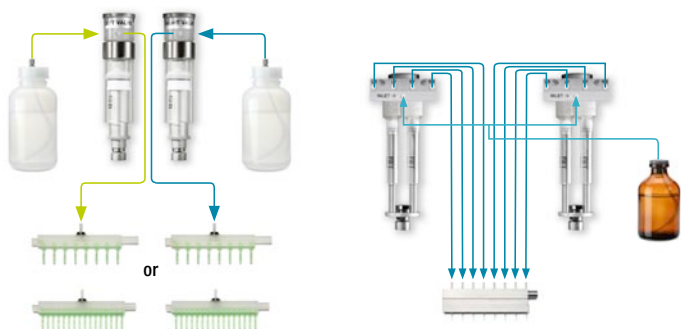
It ensures timely and accurate one- or two-channel reagent dispensing.

Different syringe sizes and corresponding dispense manifolds and tips are available for bulk dispensing, as well as low volume dispensing using the same Dispense Module. The interchangeable syringes and manifolds do not require calibration.

The proprietary Titertek syringe drive and positive displacement syringes guarantee the highest precision and accuracy. Accuracy is independent of reagent viscosity. All liquid path materials used in the Dispense Module are chemically inert. The low dead volume of the liquid path combined with application optimized priming procedures reduces reagent consumption.



- Up to two reagent dispensing.
- Enables reagent dispense immediately after washing the plate.
- Can be used as a reagent dispenser without wash.
- Fast: 50  $\mu$ l dispense extends processing time by 12 s only.
- Programming and control via Zoom or Zoom HT.
- Low maintenance.



*Fast and accurate bulk reagent dispense is accomplished via 8- or 16-channel reagent dispense manifolds. The Dispense Module can be configured with one or two 10 ml syringes to dispense one or two different reagents.*

*Low volume reagent dispense is facilitated by eight 1 ml syringes. Each syringe is furnished with a high performance tip for precision dispense as low as 2  $\mu$ l.*

# Dispense Module for Zoom Washers

## Performance Specifications

<b>Microplate Types</b>	96- and 384-well, standard height and low profile.	
<b>Dispensing Technology</b>	Positive displacement syringe.	
	<b>Two 4-in-1 1 ml Syringes</b>	<b>Two 10 ml Syringes</b>
<b>Number of Reagents</b>	1.	up to 2.
<b>Liquid Delivery</b>	8 independent tips.	8-or 16-tip manifold, each channel.
<b>Dispense Volume</b>	5–300 $\mu$ l.	5–300 $\mu$ l.
<b>Dispense Accuracy</b>	$\pm 1\%$ @ 5–100 $\mu$ l range.	$\pm 1\%$ @ 5–100 $\mu$ l range.
<b>Dispense Precision</b>	$\leq 2.5\%$ CV @ 20–100 $\mu$ l range. $\leq 3.5\%$ CV @ 10 $\mu$ l. $\leq 3.5\%$ CV @ 5 $\mu$ l.	$\leq 3\%$ CV @ 20–100 $\mu$ l range. $\leq 5\%$ CV @ 10 $\mu$ l. $\leq 7.5\%$ CV @ 5 $\mu$ l.
<b>Dispense Speeds</b>	Slow/Medium/Fast.	
<b>Liquid Path Materials</b>	Glass, Teflon® and Kel-F.	
<b>Plate Processing Speed</b>	50 $\mu$ l add-on dispense after wash: 12 s (Zoom/Zoom HT).	

## General Specifications

<b>Dimensions (WxDxH)</b>	17 x 22 x 40 cm; 6.7 x 8.7 x 15.8 inch.
<b>Weight</b>	12 kg; 26 lb.
<b>Power Consumption</b>	175 VA.
<b>Power Requirements</b>	230V 50Hz; 115V 60Hz.
<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** 