

# Multidrop Dispenser



## Multidrop Dispenser Speeds Reagent Dispensing

Lightweight, compact, and accurate, the Multidrop dispenser is a valuable tool for rapid filling of standard microplates, 384 well plates, and deep-well plates. This automatic, programmable, eight channel dispenser operates with full computer control capability. Utilizing a high precision peristaltic pump to directly dispense from single or multiple reagent bottles, the Multidrop eliminates time consuming reagent addition steps.

Using eight discrete reagent lines, the Multidrop can dispense different reagents to each row. Reagent lines may be back flushed to minimize loss of costly reagents. Multidrop's removable dispensing cassette is autoclavable and allows specific cassettes to be dedicated to specific reagents.

### Multidrop 384

Useful for the high density 384 well plate, the Multidrop 384 gives flexibility of use for 96 well or 384 well plates at the flip of a switch. Dispensing as little as 5 $\mu$ l per well up to a maximum of 395 $\mu$ l, the Multidrop 384 is both accurate and fast. From one through twenty four columns may be selected for dispensing and up to eight different reagents may be added.

### Multidrop 384 XH

This modified version of the Multidrop 384 has been given extra height (XH) to accommodate the newly popular, taller 96 and 384 well plates of up to 26mm (slightly over 1 inch). All other features and specifications are the same as the Multidrop 384.

### Multidrop Micro

The Multidrop Micro is useful for high-density 384 well plates, offering the flexibility of 96 or 384 well plate operation at the flip of a switch. Dispensing as little as 1 $\mu$ l per well up to a maximum of 50 $\mu$ l, the Multidrop Micro is both accurate and fast. Up to twenty four columns may be selected for dispensing and up to eight different reagents may be added.

### Multidrop Deep Well

The Multidrop Deep Well is useful for rapid, high volume filling of this popular plate format, the Multidrop DeepWell can be used to automate tedious filling and reagent addition steps in these plates.

- Four Multidrop models to choose from
- Ideal for cell dispensing
- High dispensing speed
- Detachable, autoclavable dispensing cassette
- Multichannel peristaltic pump
- External reagent reservoir(s)

**Titertek**



# Multidrop Dispenser

## For 96, 384 or deepwell plates

Specifications:	Multidrop 384	Multidrop 384 XH	Multidrop Micro	Multidrop Deep Well
<b>Plate Type</b>	96 & 384 Well	96 & 384 Well < 26mm	96 & 384 Well	96 Deep Well & Standard Height
<b>Dispensing Volume:</b>	<b>96 Mode:</b> 5µl to 395µl <b>384 Mode:</b> 5µl to 100µl 5µl step resolution	<b>96 Mode:</b> 5µl to 395µl <b>384 Mode:</b> 5µl to 100µl 5µl step resolution	1µl to 50µl  1µl step resolution	20µl to 995µl  5µl step resolution
<b>Dispensing Speed:</b>	5 seconds to dispense 20µl into 96 wells  14 seconds to dispense 20µl into 384 wells	5 seconds to dispense 20µl into 96 wells  14 seconds to dispense 20µl into 384 wells	6 seconds to dispense 1µl into 96 wells  14 seconds to dispense 1µl into 384 wells	26 seconds to dispense 300µl into 96 wells
<b>Dispensing Accuracy:</b>	±2% at 20µl (typical) ±1% at 100µl (typical)	±2% at 20µl (typical) ±1% at 100µl (typical)	±10% at 2µl (typical) ±5% at 5µl (typical)	±2% at 20µl (typical) ±1% at 100µl (typical)
<b>Dispensing Precision:</b>	CV < 1.5% at 20µl CV < 1.0% at 100µl	CV < 1.5% at 20µl CV < 1.0% at 100µl	CV < 10% at 2µl CV < 3% at 10µl	CV < 1.5% at 20µl CV < 1.0% at 100µl
<b>Number Of Channels:</b>	8	8	8	8
<b>Dead Volume:</b>	< 7ml	< 7ml	< 1ml	< 7ml
<b>Power Requirements:</b>	115/230V, ±10% • 50/60 Hz	115/230V, ±10% • 50/60 Hz	115/230V, ±10% • 50/60 Hz	115/230V, ±10% • 50/60 Hz
<b>Power Consumption:</b>	50 VA Maximum	50 VA Maximum	100 VA Maximum	50 VA Maximum
<b>Operating Temperature</b>	+ 10°C to + 40°C	+ 10°C to + 40°C	+ 10°C to + 40°C	+ 10°C to + 40°C
<b>Autoclaving conditions for the dispensing cassette:</b>	Pressure: 1 bar (15 psi) Temp: 121°C Time: 20 Minutes Cycles: 50 times	Pressure: 1 bar (15 psi) Temp: 121°C Time: 20 Minutes Cycles: 50 times	Pressure: 1 bar (15 psi) Temp: 121°C Time: 20 Minutes Cycles: 50 times	Pressure: 1 bar (15 psi) Temp: 121°C Time: 20 Minutes Cycles: 50 times
<b>Tubing Material</b>	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber
<b>Overall Dimensions:</b>	12w x 12.5d x 6h in. 31w x 32d x 16h cm.	12w x 12.5d x 6h in. 31w x 32d x 16h cm.	12w x 12.5d x 6h in. 31w x 32d x 16h cm.	12w x 12.5d x 7.1h in. 31w x 32d x 18h cm.
<b>Weight:</b>	13.6 lbs. 6.2 Kg	13.6 lbs. 6.2 Kg	15.7 lbs. 7.1 Kg	13.6 lbs. 6.2 Kg
<b>Interface:</b>	RS232	RS232	RS232	RS232
<b>Stacker Compatibility</b>	Yes	Yes	Yes	Yes

330 Wynn Drive  
Huntsville, AL 35805 USA

256-859-8600  
888-848-3783  
FX 256-859-8671

EM inquiry@titertek.com  
www.titertek.com

### Description

Multidrop 384  
Multidrop 384 with drain  
Multidrop 384 XH  
Multidrop 384 XH with drain  
Multidrop Micro  
Multidrop Micro with drain  
Multidrop Deep Well  
Multidrop Deep Well with drain

### Catalog No.

097852800  
097852850  
097852800XH  
097852850XH  
097852100  
097852150  
097852900  
097852950