

# MAP-C2 Workstation

The Titertek MAP-C2 is designed for unattended high throughput microplate processing of up to 60 plate batches. The MAP-C2 base model is equipped with a dual direct syringe drive that supports two reagent dispense or one reagent dispense and microplate washing. Three optional auxiliary Dispense Modules, with two direct syringe drives each, support up to six additional dispense manifolds.

The optional Multiple Inlet Reagent Station allows an addition of up to 8 different reagents or wash buffers using the same liquid path.

The dispense manifolds for the MAP-C2 are available with eight or sixteen dispense channels. For precise low volume liquid delivery, the MAP-C2 may be equipped with Titertek's unique 4-in-1 syringes and high performance dispense tips.

To further increase the assay processing flexibility, the MAP-C2 can accommodate either a 96-channel wash head or a column wash hardware. The 96-channel wash head provides a simultaneous wash on 96-well plates or quadrant wash on 384-well plates.

The MAP-C2 Windows based software package allows easy programming of complex wash and dispense procedures, including linking sequences with or without incubations, delays, and user prompts.



- **Up to 6 reagent dispense manifolds (8- or 16-channel) adding auxiliary Dispense Modules**
- **Individual syringe dispense for highest dispense precision**
- **Processes thin, regular, or deep well plates (96 or 384)**
- **Superwash capability (continuous high volume wash)**
- **96-channel wash head option**
- **Column wash and reagent addition option**
- **Inert liquid path**
- **Standard and custom integration of microplate readers and other devices**

# MAP-C2 Workstation

## Performance Specifications

<b>Microplate Types</b>	96- and 384-well
<b>Wash Manifolds</b>	96-channel, or 8-channel column
<b>Dispense Precision</b>	1–2000 µl selectable in 1 µl increments
<b>Residual Volume</b>	< 2 µl/well
<b>Wash Mode</b>	Regular and Superwash
<b>Stacker Magazines</b>	30, 45, and 60 microplates
<b>Wash Fluid Selection (Option)</b>	Automatic switching for up to 4 wash fluids

Dispense	Two 4-in-1 1 ml Syringes	Two 10 ml Syringes
<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 µl	5–300 µl
<b>Dispense Accuracy</b>	± 1 % @ 5–100 µl range	± 1 % @ 5–100 µl range
<b>Dispensing Precision</b>	≤ 2.5 % CV @ 20–100 µl range ≤ 3.5 % CV @ 10 µl ≤ 3.5 % CV @ 5 µl	≤ 3 % CV @ 20–100 µl range ≤ 5 % CV @ 10 µl ≤ 7.5 % CV @ 5 µl

## Plate Processing Speed

<b>Wash</b>	1 cycle, 300 µl: 14 s (96-well plate) 3 cycles, 300 µl each: 24 s (96-well plate) 3 cycles, 75 µl each: 44 s (384-well plate)
<b>Dispense</b>	50 µl add-on dispense, after wash: 12 s

## General Specifications

<b>Dimensions (WxDxH)</b>	83 x 50 x 57 cm; 33 x 19.5 x 23.13 inch *
<b>Weight</b>	36 kg; 80 lb
<b>Power Consumption</b>	180 VA maximum
<b>Power Requirements</b>	230V 50 Hz; 115V 60 Hz
<b>Interface</b>	USB, Serial Interface (RS-232)
<b>Operating Temperature</b>	5–40° C; 41–104° F

\* including two 30-microplate magazines

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