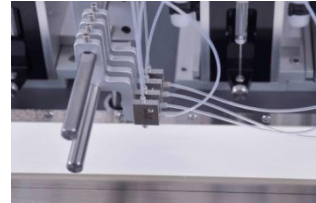




## *State-of-the-Art Manufacturing Systems for the Test Strip Industry*



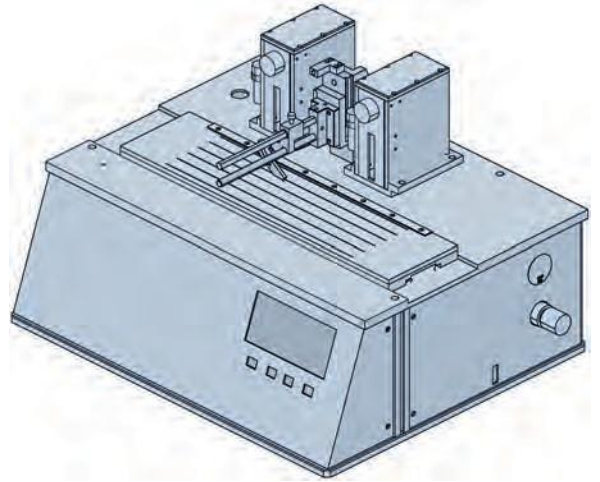
**Matrix**<sup>™</sup>

**1600 Reagent Dispensing Module**



# Matrix™ 1600

The **Matrix 1600™ Reagent Dispensing Module** provides complete integration between dispense rate and platen speed to greatly reduce set-up time.



## TECHNICAL DATA

### Key Features

- Easy set-up and touchscreen operator interface
- Easy change from lines to dots
- Small footprint, bench top application
- Integrated control system
- R&D or production capable
- Contact or non-contact dispensing
- Ability to store up to 6 different recipe names and configurations including syringe size and syringe fill volume

### Capacities

- Sheet size..... 3.93" x 12.59" (100 mm x 320 mm)
- Number of lines..... 1 to 4
- Supply reservoir..... 5000 µl
- Syringe.. 100 µl (standard size) – 1 ml  
(various syringe sizes available for purchase)

### Dispensing Capabilities

- Minimum dot volume..... 0.5 µl
- Minimum dot spacing..... 0.08" (2 mm)
- Stripe Volume..... min .5 µl to max 20 µl
- Platen speed..... 0.78" to 4.72"/sec (2 to 12 cm/sec)
- Line spacing..... 0 to 3.15" (0 to 80 mm)

### Accuracy

- Dispense rate..... ± 1%
- Platen speed..... ± 1%

### Facilities Requirement

- Power..... 110 VAC 50/60 Hz 3 amp  
230 VAC 50/60 Hz
- Process Air..... 3 cfm @ 85 psi (85 l/min @ 5.86 bar)  
Clean dry air

### Dimensional Specifications

- Size..... 19" D x \*22" W x 15" H  
77.5 cm D x \*55.9 cm W x 38 cm H
- \*Moving platen extends up to 5.25" (13 cm) beyond ends
- Weight..... 60lbs (27kg)

**Warranty**..... 36 months

The **Matrix 1600 Reagent Dispensing Module** provides the low cost solution for reagent striping onto lateral flow test strip products. Ease of set-up and use makes this an ideal system for product development.

Robust construction utilizing high quality components provides the reliability required in production scenarios. With the touch screen interface, the operator controls insure consistent results from batch to batch.

Dispensing tip line spacing adjustment and replacement can be accomplished without tools, allowing quick change-over between products. No additional devices are required to set or adjust operational settings. Platen speed, flow rate, dot spacing, and dot volume are all configured using simple scroll-through interface screens.

### The **Matrix 1600** vs. Other Delivery Platforms:

- Integral touch screen Operator interface with help screens
- Single-axis dispensing (lines or dots)
- Integrated bed speed/dispense ratio eliminates the need for calculation
- Simplified fluid path results in virtually no clogging
- Most wetted path components disposable, for low maintenance cost

Specifications subject to change without notice

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