# HENDRIX SM100

## Programmable Ultrasonic Microplate Mixer

**Mixer Head**

**Base Module**

### Applications:

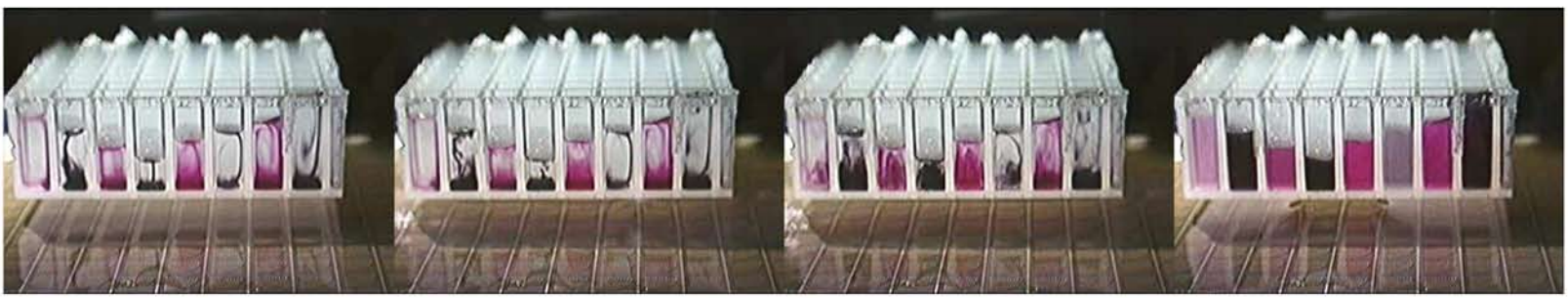
· Non-invasive mixing
  - Improves homogeneity of compounds in solution
  - Eliminates localized concentration in a well
  - Improves assay reproducibility as seen by z-prime values in HTS

· Compound Solubilization
  - Improves compound solubility in microplates
  - Decreases false negative tests due to compound precipitation

· Isothermal thawing of microplates
  - Complete isothermal thawing of 384-well polypropylene microplates in under 90 seconds

· Bead, particle, and cell resuspension

**Acoustic mixing of dye in water in a sectioned 384-well microplate:**



**Elapsed Time:** **0 Sec** **3 Sec** **5 Sec** **10 Sec**

## Features:

- Compact head and open plate nest facilitate automation and allow easy access for robotic arms
- LCD display and keypad interface provide access to configurable programs
  - Adjustable mixing power, timed operation, and on/off duty cycling
- Simple communication & programming architecture
  - Client PC via RS232 and ethernet
  - API enables control of the mixer start/stop, time and power for drivers and integrations
  - .NET Framework 2.0 and COM compatible SDK
  - External TTL signal - to start the mixer for integration without writing custom drivers
- Simple, low-maintenance, temperature-controlled fluidic system

## Advantages:

- "All-On" design provides unparalleled speed simultaneously thawing, mixing, and solubilizing
  - 384 simultaneously active effectors reduce whole plate processing time
- Power control from ultra gentle mixing to high power solubilization
- Plate properties unaffected by acoustic power
- Compound solubilization without plate sealing
  - No consumables
  - Decreased cycle time
- High reliability design with no moving parts
- No bubble nucleation or foaming
- Works with aqueous, DMSO and higher viscosity fluids

## Ordering Information:

Item Number: SM-100
Description: Programmable Ultrasonic Microplate Mixer

For sales enquiries, send request to: sales@microsonicsystems.com