

Universal acoustic mixing platform for R&D



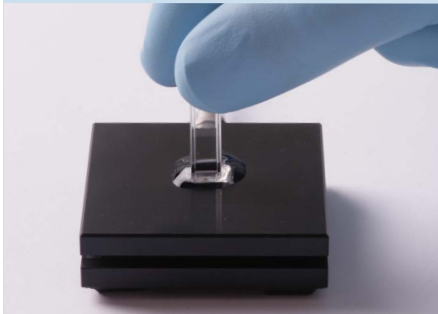
SAWStation SST4

Features

- evaluation package
- volumes: picoliter to 10 mL
- stand-alone and PC based control via USB
- OEM and custom SAW mixing solutions available

Applications

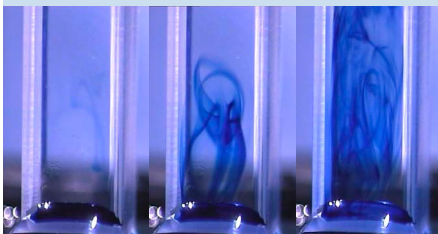
- mix and homogenize liquids and particles in MTP wells, cuvettes, open droplets, flow chambers
- pump and dose reagents in lab-on-chip systems
- keep beads and cells suspended
- accelerate antigene/antibody reactions
- extract trace minerals in small volume soil samples



Mixing in a fluorometer cuvette

Benefits

- versatile mixing platform
- highly effective in small volumes
- non-invasive mixing
- no moving parts (vibration free)
- maintenance-free
- easy to integrate (small form factor)



Different mixing steps in a fluorometer cuvette

Mixing in capillary gaps A

- active area: 25 x 22 mm²
- capillary gaps > 30 µm

Mixing in an open droplet B

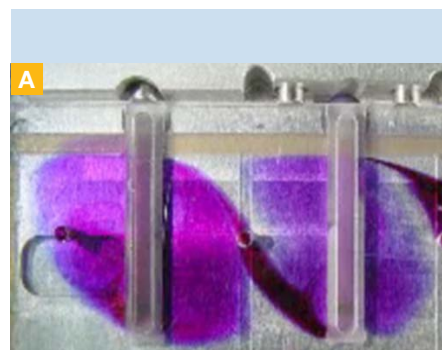
- drop on standard glass slide
- ideal to mix µL assays e.g., proteins
- drop volume as low as a few picoliter

Dosing in a channel system C

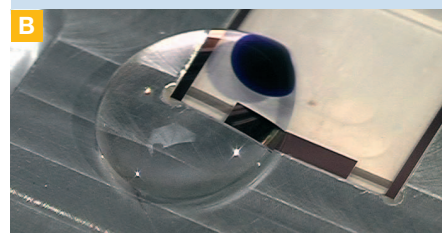
- two reservoirs (100 µL each) with reagent A and B connected by a channel of 3 µL volume
- SAW “pump” located under channel (typical channel diameters: between 250 µm and 1000 µm)
- Low cost consumable - pumps are part of the instrument
- Additional mixer chips can be placed underneath the reservoirs and can also be applied to more than two reservoirs

Order Information

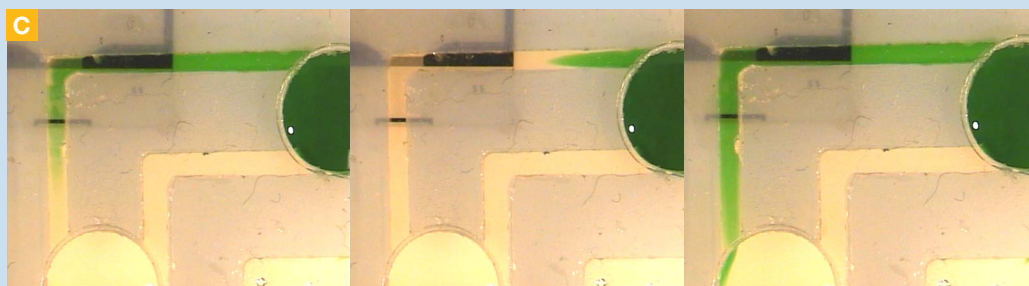
Ref.-No	Description
OAX06151	SAWStation SST4 (Generator8 with Extension Module XM10)



Mixing in a capillary gap



Mixing an open droplet



Dosing in a channel