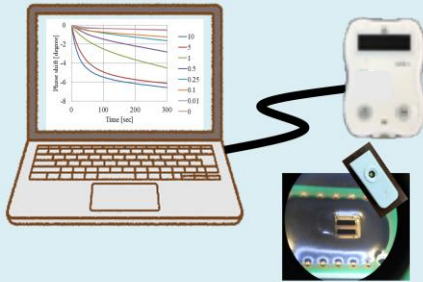


# Immunoassay Analyzer

## SAW Open Platform by tstbio



### <SAW Open Platform>

1. Reader (with USB cable)
2. Software on PC
3. Protocol for immobilization
4. SAW Bare chip



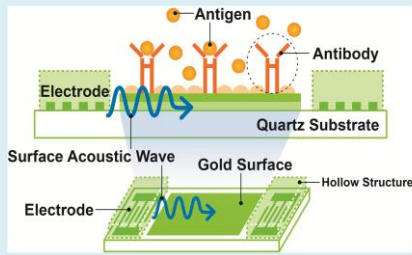
- 250MHz SH-SAW measurement
- Small sample volume (3~5uL)
- Manual pipetting
- Palm-sized Reader

### Platform Reader Specifications:

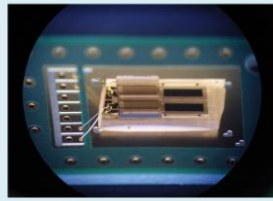
Feature	Description
Size(L x W x H)	107 x 73 x 30 mm
Weight	185 gram (incl. AAA battery 4 pieces)
Battery	4 AAA alkaline batteries
Signal detection Frequency	RF burst signal 250MHz
Modes;	1. Stand alone operation 2. Real time measurement
QR code reader	Need to use for stand alone operation
Measurement interval	0.125 seconds for 2CH
Number of test channels	Standard: two channels (Options: four channels)
Operating conditions	25 ± 10 °C , 40 ± 30 %
Software for PC	Platform Viewer Ver. 1.0004.01
SAW chip	Bare chip (provided by tstbio) Other (provided by tstbio)

### NOTICE for Platform Reader

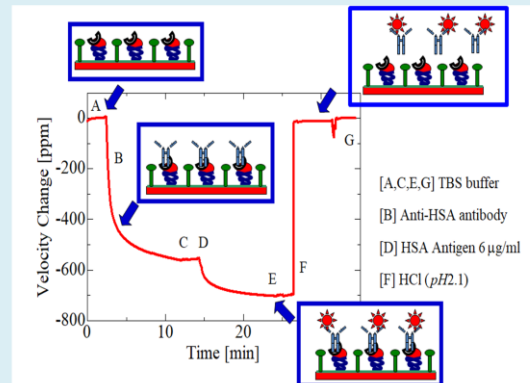
- 1 Wait 90 seconds after SW ON for warm up
- 2 Place on a flat surface
- 3 Do not contaminate the electric terminal area



Gold surface for Immobilization



- + Small sample volume,
- + Results in few minutes.
- + Flexible experiment,
- + Quantitative results.



Real time measurement of amplitude change and velocity change

### SAW Chip Specifications:

Feature	Description
Size(L x W x H)	23 x 10 x 2 mm
Weight	0.47 gram
Center frequency	250 ± 2 MHz
Delay time	1.2 us ± 0.2 us
Insertion loss (bare chip)	30.5 dB ± 4 dB with a matching circuit
SAW chip Substrate	Quartz
Sensor Surface	Gold
Pipette Volume	5ul max
Sample area black resin	Epoxy
Sensor channels	two

### NOTICE for SAW chip

- 1 Use within 12 hours after opening a plastic package.
- 2 Do not touch the sensor surface.
- 3 Do not reuse SAW chips.
- 4 Do not contaminate the electric terminal area.
- 5 Dispose of as industrial waste in accordance with the regulations.