

Ultrassay® uSC PCR temperature measurement system is a high-precision temperature measurement system with independent intellectual property rights successfully launched by Ultrassay BioTech Co., Ltd. after years of research & development of temperature control equipment and mastering a number of proprietary technologies.

Ultrassay® uSC PCR temperature measurement system can collect and verify the temperature of PCR instruments of various brands and multiple blocks in real time. It conforms to the international "JFF1527-2015 Polymerase Chain Reaction Analyzer Calibration Specification".

Ultrassay® uSC PCR temperature measurement system is composed of a thermometer, a temperature monitoring probe and PC analytical software, which is lightweight and convenient while meeting the needs of high-precision temperature collection.

A full set of tools is placed in a special suitcase, which can meet the needs of users in different occasions.

## Ultrassay® uSC PCR Temperature Measurement System



**ULTRASSAY BIOTECH CO., LTD.**  
RM3018 Poly D9, No. 999 Luzhou Avenue, Baohe District,  
Hefei, Anhui, China  
Tel: +86-551-62881663  
E-mail: [info@ultrassay.com](mailto:info@ultrassay.com)  
Website: <https://ultrassay.com>



## Application:

01

With an accumulation of time in the use of thermal cycler, the semiconductor components will deteriorate and the local temp. control will not be accurate. Thermal cyclers of same brand or even same model will show different temp. performance after long-term use, therefore, a regular calibration of thermal cycler is required, that to avoid affecting the experimental process and result due to instrument's failure.

02

The temp. control curves of different brands and models of thermal cyclers are different. Ultrassay® uSC temp. measurement system can quickly and intuitively find the difference in temperature control, so as to adjust the parameters of the amplification program and quickly improve the PCR amplification efficiency.

03

Ultrassay® uSC temp. measurement system can collect and calibrate the temp. of different brands and different blocks (384, 96, 48, 32, 16, 8-well) of the thermal cycler (the manufacturer needs to provide permission or port to modify the temperature control parameters of the thermal cycler).

04

Ultrassay® uSC temp. measurement system is a multi-channel temperature measurement device, which can simultaneously measure and display multiple wells or multiple temperature value change curves of the thermal cycler, and record various temp. indicators in real time. The number of temp. probes and probe position can also be customized to meet the needs of different users.



## Technical Specification:

Temperature range	0~120°C
Accuracy	±0.05°C
Resolution	0.01°C
Number of probe	1, 3, 6, 16pcs or customized
Probe Position	Standard or Customized
Temp. collection frequency	0.5~10s adjustable, default 1s/time
Curve graph	Real-time display
Data output	Excel/FDF temperature report
Recommended calibration cycle	1 year/time
PC Operation system	Windows 7, Windows XP, Windows 10 etc.
Application scope	Thermal Cycler, qPCR System, Dry Bath and other thermal instruments
Controller dimension	122x84x25mm
Controller weight	255g
Thermometer dimension	118x82x20mm
Thermometer weight	100g

**uSC96-6**  
Applies to 0.1ml/0.2ml x 96-well block



**uSC384-6**  
Applies to 384-well block



**uSCP-6**  
Applies to flat block



## Multi-channel High-precision Measurement System

Applies to shaker, incubator, refrigerator and freeze dryer etc.

