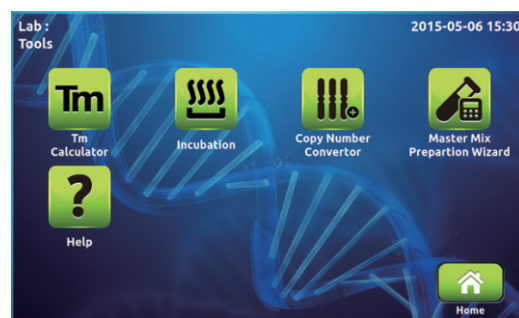


## Thermal Cycler



## Easy to Control &amp; Convenient Tools



The sensitive 7" capacitive touchscreen enables easy operation even with laboratory gloves on.

The built-in tools allow easy Tm calculation, copy number conversion and master mix preparation.

### ► Features

#### • Intuitive, Rapid and Precise :

It is designed specifically to enhance PCR efficiency and accuracy.

It is equipped with a 7" capacitive touchscreen and a friendly graphics user interface, which makes operation highly intuitive.

With fast ramping rate and gradient PCR optimization, greatly improves PCR processing efficiency and accuracy.

#### • Efficient Remote Monitoring :

The optional Wi-Fi module enables users to monitor the working status anytime via mobile devices.

#### • Intuitive Operation Experience :

Easy to Control

The sensitive 7" capacitive touchscreen enables easy operation even with laboratory gloves on

#### • Highly Flexible Design :

The Compact A4 footprint allows side-by-side placement of units to save bench top space

Easy to operate heated lid design, compatible with most of the PCR vessels on the market

Power failure recovery keeps the experiment safe

USB port support for protocol transfer

#### • Convenient Tools :

The built-in tools allow easy Tm calculation, copy number conversion and master mix preparation.

#### • Friendly User Interface :

The simple conversational graphic user interface, which has intuitive spinning wheels, makes adjustment of experiment temperature, time and cycle easy.

#### • Outstanding Performance :

Fast heating ramp rate up to 5.5 °C/sec

Excellent temperature accuracy and uniformity (+/- 0.3 °C)

12-section gradient temperature range from 1 to 24.9 °C for PCR optimization

The quick boot-up takes only 45 seconds

The high ramp rate and precise temperature control of gives excellent PCR efficiency.

#### • Highly Flexible Design

The compact A4 footprint allows side-by-side placement of units to save bench-top space

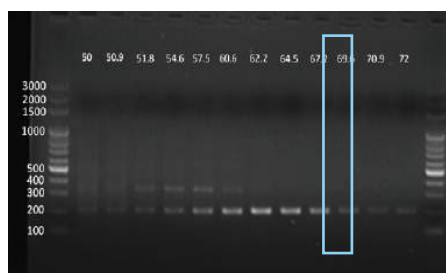
Easy-to-operate heated lid design, compatible with most of the PCR vessels on the market

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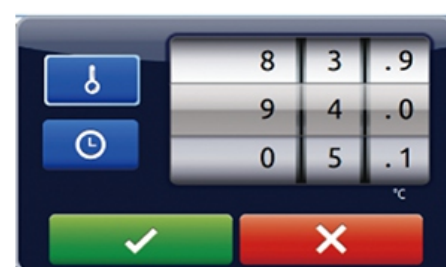
- The gradient function enables users to screen optimal experimental conditions in a single PCR run.

## Annealing Temperature (°C)



The specific 200bp PCR product has the best PCR yield at an annealing temperature of 62.2°C

## Friendly User Interface



The simple conversational graphic user interface, which has intuitive spinning wheels, makes adjustment of experiment temperature, time and cycle easy.

### ► Specifications :

Model No.	131971
Sample Block	Fixed 96-well, compatible with regular profile or low profile 0.2 ml PCR tube, strip, non-skirted, semi-skirted and full-skirted 96-well plate
Sample Volume	10 - 100 µl
Block Temperature Range	4.0 - 99.9 °C
Max. Heating Rate	5.5 °C/sec
Max. Cooling Rate	3.3 °C/sec
Temperature Accuracy	±0.3 °C
Temperature Uniformity Across Block	±0.3 °C
Adjustable Ramp Rate	High / Low
Slow Ramp Temperature Control	Via temperature increment / decrement between cycles
Gradient Direction	Horizontal across the block
Gradient Temperature Range	30 - 99 °C
Gradient Temperature Difference	Max. span 24.9 °C
Temperature Setting Range	35 - 120 °C or off
Temperature Accuracy	±1.0 °C
Software	
Portability of Protocols	Save and transfer to computer or via USB flash drive
Stored Program No.	> 500 sets
Registered User Folder No.	100 sets
User Folder Password Protection	Yes
Run Status Report	Yes, HTML output and transfer via USB flash drive
Real-time Temp. Profile Export	Yes, CSV output and transfer via USB flash drive
Tools	Tm calculator, Copy number convertor, Master mix preparation wizard
General	
Display	7" color LCD with capacitive touch panel
Data Port	1 USB Type-A front port for USB flash drive
Auto Restart after Power Outage	Yes
Remote Monitoring via Wi-Fi	Optional
Footprint Dimensions (H x W x D)	225 mm x 245 mm x 415 mm
Weight	9.5 kg
Power Supply	AC 100-240 V, 50/60 Hz, 750 W
Certification	CE, RoHS