



Thermal Cycler 2.1 (INV-TC-2.1)

Thermal Cycler 2.1 thermal cycler is designed specifically to enhance PCR efficiency and accuracy. It is equipped with a 7" sensitive touchscreen and a friendly graphic user interface, which makes operation highly intuitive. With flexible ramp rate and gradient temperature control, Thermal Cycler 2.1 greatly increases PCR accurate optimization. The Wi-Fi function enables you to monitor the PCR run status anytime remotely with walk-away convenience.

Features and Benefits

- **Outstanding Performance**
 - Flexible Ramp Rate Control: from 0.1 - 5.5 °C/sec to meet the need for the CRISPR related assays .
 - Flexible Ramp Rate Control: from 0.1 - 5.5 °C/sec to meet the need for the CRISPR related assays .
 - Gradient Optimization: range from 1 to 30 °C enables optimal experimental conditions in a single PCR run.
- **Easy to Control**
 - The sensitive 7" capacitive touchscreen enables easy operation even with laboratory gloves.
- **Friendly User Interface**
 - The graphic interface is easy to use, making the adjustment of experiment parameters such as temperature, time and cycle quick and simple.
- **Efficient Remote Monitoring**
 - Monitor your PCR status remotely anytime on your mobile device via the free TurboApp.



Specifications:

96 Well, Gradient Block	Compatible with regular profile or low profile 0.2 ml PCR tube, strip, non-skirted, semi-skirted and full-skirted 96-well plate
Block Temperature	
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 Ramping and Cooling Rate	Yes, low / high
Gradient Temperature	
Gradient Direction	Horizontal across the block
Gradient Temperature Range	30 - 99 °C
Gradient Temperature Difference	Max. span 24.9 °C
Software	
Portability of Protocols	Save and transfer to computer or TurboCycler 2 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
Heated Lid	Yes, fixed 105 °C, 120 °C and off
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	VAC 100-240, 50/60 Hz, 750 W
Certification	CE IVD, RoHS

