TurboCycler 2

Enhancing PCR Efficiency and Accuracy

TAIWAN EXCELLENCE 2019

BLUE-RAY BIOTECH

Enhancing PCR Efficiency and Accuracy

TurboCycler 2 thermal cycler is designed specifically to enhance PCR efficiency and accuracy. It is equipped with a 7” sensitive touchscreen and a user-friendly graphic interface, making operations highly intuitive.

With flexible ramp rate and gradient temperature control, TurboCycler 2 greatly optimizes PCR accuracy. With the Wi-Fi function, the PCR status can be monitored remotely at any time with convenience.

Outstanding Performance

Flexible Ramp Rate Control

from 0.1 - 5.5 °C/sec to meet the need of different experiment requirements.

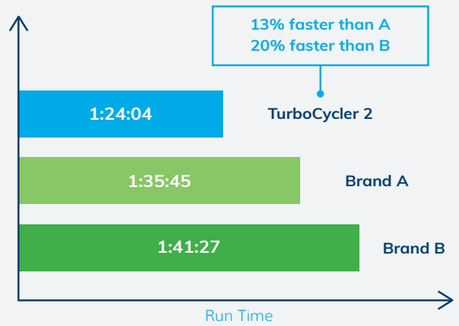
Fully Adjustable Lid Temperature

can be set between 35 - 120 °C for virtually any type of experiment, including NGS pre-treatment.

Gradient Optimization

range of 1 - 30 °C enables optimal experimental conditions in a single PCR run.

The high ramp rate and precise temperature control of TurboCycler 2 gives excellent PCR efficiency.



Run time comparison between TurboCycler 2 and competitors.

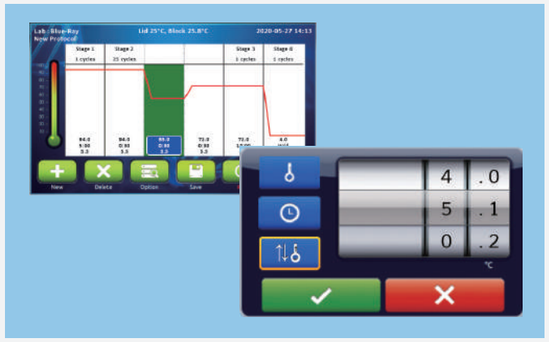
Intuitive Operation Experience

Easy to Control

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

User-Friendly 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.

TurboApp | Download on the App Store | ANDROID APP ON Google play

Highly Flexible Connectivity

- Easy-to-operate heated lid design, compatible with most PCR vessels on the market.
- Can store over 4,000 built-in programs and supports additional USB port for protocol transfer.

Specifications

Sample Block

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 - 100 °C
Max. Heating / Cooling Rate	5.5 °C/sec / 3.3 °C/sec
Temperature Accuracy / Uniformity	+/- 0.3 °C / +/- 0.3 °C
Adjustable Ramp Rate	0.1 - 5.5°C/sec

Gradient Temperature

Gradient Direction	Horizontal across the block
Gradient Temperature Range	30 - 100 °C
Gradient Temperature Difference	Max. span 30 °C

Heated Lid

Temperature Setting Range	35 - 120 °C or off
Temperature Accuracy	+/- 1.0 °C

Software

Portability of Protocols	Save and transfer to computer or TurboCycler 2 via USB flash drive
Stored Program No.	> 4000 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	35 - 120 °C or 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	AC 100-240 V, 50/60 Hz, 750 W
Certification	CE, RoHS

Specifications are subject to change without prior notice.

Ordering Information

TCST-9612	Gradient TurboCycler 2 with 96-Well Sample Block (110 V)
TCST-9622	Gradient TurboCycler 2 with 96-Well Sample Block (220 V)
TCST-a001	Wi-Fi Upgrade Module
TCST-a002	5.2 mm Compression Mat x 10 pcs
TCST-a003	1.0 mm Compression Mat x 10 pcs

CE RoHS COMPLIANT

bsi. UKAS MANAGEMENT SYSTEMS ISO 13485