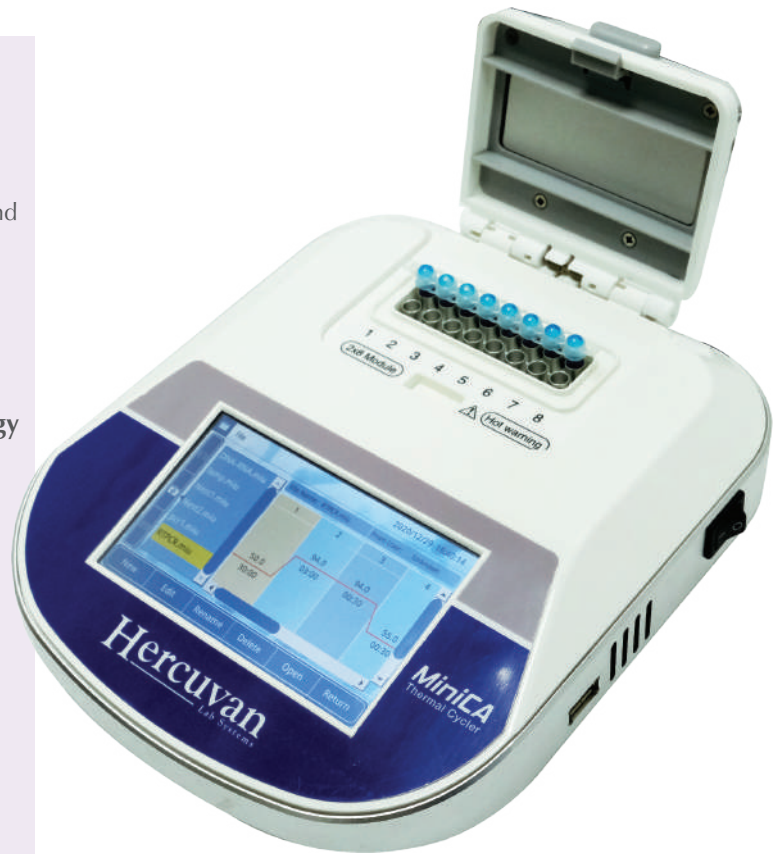


GS-1602/3202 Minica Personal Thermal Cycler

HIGHLIGHTS

- Compact and lightweight**
 Slim and light design (only 3.2kg) makes it convenient for field application
- Easy to program**
 5 inches TFT high-definition touchscreen display and intuitive graphical programming makes navigation, protocol editing and viewing easier
- High performance lid**
 The flexible lid design adapts to different tube heights to ensure proper compression
- Latest generation of semiconductor technology**
 Excellent PCR performance and temperature uniformity with multiple evenly distributed sensors
- Two temperature control modes available**
 Temperature control modes for tube and block are available
- Easy data output**
 Able to save and transfer files using USB flash drive
- Personalized log in users and passwords**
 Log in feature allows users to set password for individual account to fully monitor their protocols with more privacy
- Free and easy software updates**
 Software update from USB flash makes the software updates easier
- Incubation setting**
 Incubation setting module allows users to program desired incubation block temperature and hold time



GS-1602 MiniCa Personal Thermal Cycler

GS-1602 Minica Personal Thermal Cycler is a mini thermal cycler that accommodates 16-well \times 0.2 ml tubes. Another model variant, the GS-3202 Minica Personal Gradient Thermal Cycler comes with a standard 32-well \times 0.2 ml block and fast ramping rate up to 5°C . The slim and light design make these models conveniently portable for field application use. Equipped with latest generation of semiconductor technology, it offers excellent module heat conduction and temperature uniformity. It has 5-inch TFT colour touch screen display with user-friendly interface.

Both models can store more than 100 programs and easy data output enables user to save and transfer files using USB flash drive. Moreover, software updates can be conducted conveniently with USB flash.

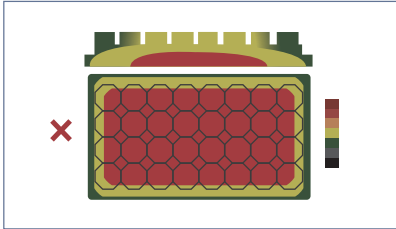


GS-3202 MiniCa Personal Thermal Cycler

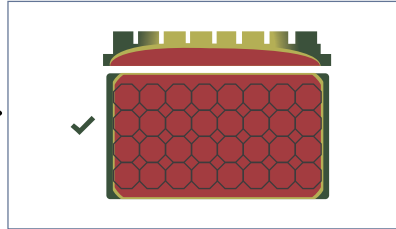
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Lab Systems

FEATURES



Excellent PCR performance with efficient module heat conduction that provides great temperature uniformity. The multiple evenly distributed sensors provide improved temperature control.



Efficient heat dissipation is achieved from the one-piece aluminium design on the bottom.

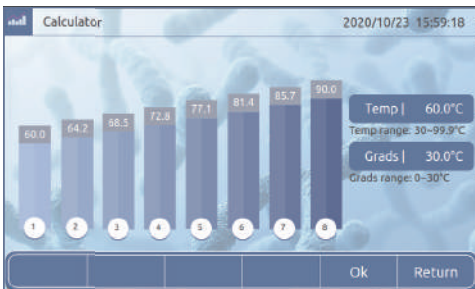


The lid structure design adapts to different tube heights to ensure proper compression.



5 inches TFT high-definition touchscreen display.

SOFTWARE



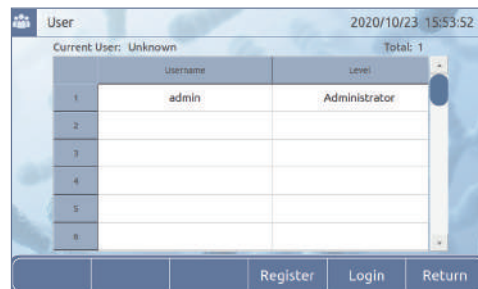
Built-in gradient system for easy set up (GS-3202).



The intuitive interface allows programs to be easily set up. Gradient distribution (GS-3202) and experiment process are displayed in real-time for monitoring.



User can select preferred lid setting as well as temperature control mode (block or tube).



Personalized log in users and passwords allows more privacy and can store over 100 programs.

TECHNICAL DATA

Specifications	GS-1602	GS-3202
Capacity	16 x 0.2ml	32 x 0.2ml
Program memory	>100 programs + USB	>100 programs + USB
Temperature range	4 - 99.9°C	4 - 99.9°C
Temperature gradient	-	30°C
Gradient temperature range	-	30 - 99.9°C
PCR volume range	1-200 µl	1-200 µl
Maximum heating rate	5°C/sec	6°C/sec
Maximum cooling rate	4°C/sec	5°C/sec
Temperature uniformity	±0.2°C	±0.2°C
Temperature accuracy	±0.1°C	±0.1°C
Ramp rate adjustable	-	0.1 – 5.0°C
Display	5" TFT colour touch screen, 800×480 pixel	5" TFT colour touch screen, 800×480 pixel
Cool samples to 4°C	Yes, at room temperature 25°C and below	Yes, at room temperature 25°C and below
Auto restart after power failure	Yes	Yes
Height adjustable heated lid	Yes	Yes
Hot lid temperature range	30-110°C	30-110°C
Max. number of steps	30	30
Max. number of cycles	99	99
Time increment/ decrement	1sec – 600sec	1sec – 600sec
Temperature increment/ decrement	0.1 - 10°C	0.1 - 10°C
Max. power consumption	110 Watt	200 Watt
Input voltage	AC100-220V 50Hz	AC100-220V 50Hz
Interfaces	USB	USB
Dimension (W x D x H)	200 x 230 x 85 mm	200 x 230 x 85 mm
Weight	3.2 kg	3.2 kg

ORDERING INFORMATION

Cat. No.	Personal Thermal Cyclers
GS-1602	Minica Personal Thermal Cyclers GS-1602, 16 x 0.2 ml block
GS-3202	Minica Personal Gradient Thermal Cyclers GS-3202, 32 x 0.2 ml block