

## **FastGene™ UltraCycler**

Efficient, intuitive, smart



- ✓ Very fast ramp rates for a quick PCR
- ✓ 96-well PCR instrument with a gradient
- ✓ Touchscreen with a very easy-to-use software
- ✓ Compatible with most PCR tubes and 96-well microplates

### It's simple - Affordable gradient PCR

A thermal gradient of up to 24°C can be precisely generated so that the temperature of each well is repeatable cycle-to-cycle. Sporting a fully adjustable heated lid, the FastGene® Ultra Cycler is compatible with a wide range of 0.2 ml PCR tubes (standard and low profile) and 96-well PCR microplates (fully-, semi-, and non-skirted). And now with a gorgeous touchscreen interface and simple programming, this system is as easy-to-use. Small and robust, the FastGene® Ultra Cycler can carve out a niche in any lab environment by providing years of reliable amplification!



Check it out on  
You 



## FastGene™ UltraCycler

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### SPECIFICATION

Gradient	✓	24°C over the whole block width
High temperature range, accuracy and resolution	✓	Temperature range: 4°C - 99°C   Temperature accuracy: ± 0.25°C Temperature resolution: 0.1°C increments
Very fast ramp rates	✓	Heating rate: 7°C / per second Cooling rate: 5°C / per second
Compatible	✓	0.2 ml tubes or strip tubes with flat or domed caps 96- well high-or low skirt plates with strip caps, adhesive seal
Condensation control	✓	Automatic utilising applied pressure heated lid
Heated lid	✓	Heated lid with a temperature range of 60°C - 115°C
Compact design	✓	Dimensions: 180 x 285 x 190 mm (W x D x H) Weight: 5.5 kg
Integrated power supply	✓	100-240V, 4 A (50/60 Hz) automatic voltage sense, standard IEC Inlet plug
Huge touchscreen	✓	7-inch widescreen colour touch display

### Customer Testimonial

*"We own a Nippon FastGene® Ultra Cycler since December 2017. The Cycler is used every day. So far, the device works very reliable. It is relatively small, very quiet and has very short run times, because of fast heating and fast cooling of the samples. The handling and programming of the cycler is very simple with a clear menu navigation. Everyone can save own programs with a personal avatar"*



**Researcher**  
Institute of Molecular Botany,  
University Ulm, Germany



### Ordering information

Cat. No.	Product
FG-TC01	Gradient UltraCycler PCR Thermocycler with touchscreen
FG-TC02	Uniform UltraCycler PCR Thermocycler with touchscreen

# FastGene™ UltraCycler

## The gradient advantage

The gradient function allows you to optimise your reactions. Discover the best annealing temperature over a range of 24°C. The block system is designed for the use of 96 individual PCR tubes (0.2 ml), 12 PCR 8-well strips (0.2 ml) or 96-well PCR plates (0.2 ml). The UltraCycler combines the latest electronics and peltier technology with unusually high operating comfort.

## Quickstart with Albert



Enables the user to configure easy to moderate complexity profiles in just moments. Every step from a routine PCR is available (even an 1-Step RT-PCR can be performed).

## Touch screen graphical user interface

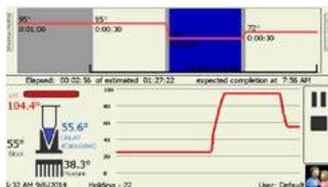
A high performance graphical processor with a large 7 inch, vivid colour touchscreen display allows for an easy run setup and monitoring. The powerful yet intuitive software makes creation of even the most complex of thermal profiles a breeze.

## Heated lid evaporation control

The UltraCycler employs an applied pressure heated lid design to keep the air contained within the tube hotter than the reaction volume. This causes any evaporation to condense back into the cooler reaction liquid, thereby eliminating the need for an oil or wax condensation overlay.

## USB connectivity

A front USB port allows for fast, easy file transfer to a USB memory stick enabling the sharing of thermal profiles between instruments and users. The use of a USB mouse is also supported.



### Watch your PCR

The software allows you to watch all steps during the PCR cycle with precise temperature information.

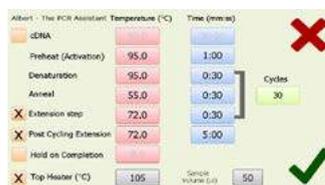
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### Exact temperatures

The temperature gradient selected with Albert PCR assistant is used to calculate the exact temperature in each lane. Hence, a better determination of the optimal temperature is possible.



### Genious configuration

The Albert PCR assistant enables the user to configure easy to moderate complexity profiles in just moments. All the thermal steps which occur in a typical profile are included and the parameters may be adjusted in just a few clicks.



### The user accounts section

Allows up to 99 user profiles each with dedicated file storage directory and personalized icon. When a user is selected, thermal profiles will be loaded or saved to a directory specific to that user providing easy recovery later.