



**GENECHECKER®**

## Model UF-150 Ultra-Fast Real-time PCR System

Fast and easy qPCR platform  
that benefits your application

**New sample format and state-of-the-art hardware technology makes the difference.**

**GENECHECKER** adopted special polymer chip (**Rapl:chip™**) which enables even faster thermal treatment of samples in it than the case of using PCR tubes for conventional PCR instruments. 8°C/sec ramping rate can be achieved, for both heating and cooling, through the thermal cycling mechanism of **GENECHECKER**.

**Innovative detection mechanism ensures reliable results of analysis.**

Integrated camera module of **GENECHECKER** fully monitors and records the fluorescence signal of samples during reaction process and the recorded signals are processed and displayed within **GeneRecorder** software for analysis. **GENECHECKER** provides precise result of reaction with unique data processing method, compared to the conventional instruments in the market, which collects the fluorescence signal with optical scanning method. **GENECHECKER** software adopted key analysis parameters which are similar to conventional instruments in the market and any users can easily make use of this intuitive analysis tool. **GENECHECKER** comes with **GeneRecorder** software and its license. Every units are individually calibrated before shipping and no user's calibration is needed to run the instrument.

Patented chip based sample format and ultra-fast ramping provides extremely rapid output. – “40 cycles in 20 minutes”

Real-time analysis through dedicated software, **GeneRecorder**

Small footprint (20cm x 20cm x 12.5cm) for laboratory and POCT use

DC power driven – battery operation possible using optional power kit

Intuitive control with LED indicated jog-dial and LCD display

One-step reverse transcriptase PCR available for RNA applications



**This could be your point-of-care molecular diagnostics platform.**

**GENE<sup>®</sup>CHECK<sup>™</sup>ER** Model UF-150 platform can be applied to point-of-care molecular diagnostics using its ultra-fast reaction capability and easy-to-use interface for analysis. Aside from standard platform, Genesystem offers OEM manufacturing service in order to customize the design and performance tailored to the requirements of its clients in molecular diagnostics industry.



Analysis process becomes more than 'simple' with GeneRecorder.

## SPECIFICATION

Operating Mechanism	Precise Control of Peltier Element
Temperature Accuracy	± 0.5°C
Temperature Uniformity	± 0.5°C (Well to Well)
Temperature Stability	± 0.5°C
Ramping Rate	8.0°C / second
Range of Temperature Setting	35 ~ 65°C (1.0°C Increment) for RT Step 20 ~ 99°C (1.0°C Increment) for PCR
Sample Format	Polymer Based 3-Dimensional Microfluidic Chip
Number of Samples per Run	10
Reaction Volume	100µl
Typical PCR Duration	Less than 20 Minutes for 40 Cycles (without RT Step)
Method of Detection	Analysis of Digitized Fluorescence Signal
Display	Text LCD (4 Line)
Integrated Memory	Saves up to 12 PCR Protocols
Type of Excitation	High Brightness LED
Excitation Wavelength	465nm ± 10nm
Number of Detection Channel	1 (FAM, SYBR Green)
Method of Fluorescence Measurement	Integrated Camera Module (CMOS)
PC Connection	USB 2.0 A to B (PC to Device) Only available through GeneRecorder)
Power (Wattage)	AC 110-230V (50-60Hz) Input / DC 12V Output (70 W)
Dimension / Weight	200(w) x 200(d) x 125(h) mm / 3.2kg

## ORDERING INFORMATION

Cat. No.	Description / Pack Size
001151	Model UF-150 <b>GENE<sup>®</sup>CHECK<sup>™</sup>ER</b> Ultra-Fast Real-time PCR System / 1 SET
003001	Car Power Kit / 1 SET
003002	Battery Power Kit / 1 SET

- 1** Real-time amplification curves are displayed in this section.
- 2** As a tool of post-reaction analysis, melt cycle is performed and the change of fluorescence signal during melt cycle is displayed in this section once melt cycle is finished.
- 3** Based on the result of melt cycle, melt peak is displayed for easy identification and comparison of Tm values.
- 4** This section shows the reaction data such as Ct and Tm. In case of quantitation, copy numbers are also displayed.



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