

genechecker UF-150 Real-time PCR System

Fast and easy
qPCR platform
that benefits
your application



- 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

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

genechecker adopted special polymer chip (Rapi: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.

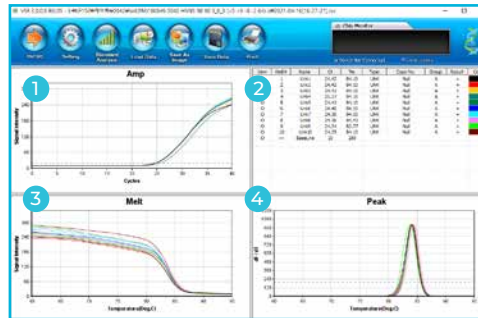
Integrated CMOS camera module of genechecker fully monitors and records the fluorescence signal of samples during reaction process and the recorded signals are processed and displayed within GeneRecorder software for analysis. genechecker provides precise result of reaction with unique data processing 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.

THIS COULD BE YOUR POINT-OF-CARE MOLECULAR DIAGNOSTICS PLATFORM.

genechecker 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.

1 Real-time amplification curves are displayed in this section

3 Based on the result of melt cycle, melt peak is displayed for easy identification and comparison of Tm values



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.

4 This section shows the reaction data such as Ct and Tm. In case of quantitation, copy numbers are also displayed.

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 / 1 ~ 99 °C (1.0 °C Increment) for PCR
- Sample Format	Polymer Based 3-Dimensional Microfluidic Chip
- Number of Sample per Run	10
- Required Sample Volume	10 µl
- 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
- Wavelength	455 nm ~ 465 nm
- 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 110-240V (50-60Hz) Input / DC 12V Output (120W)
- Dimension / Weight	200(w) x 200(d) x 127(h) mm / 2.6kg

ORDERING INFORMATION

Catalog No.	Product	Pack Size
1199100101	genechecker UF-150 Real-time PCR System	1 SET
1699100500	Optional Power Cable for Car Cigarette Power Socket	1 SET
9699100100	Rapichip™ 10-well PCR Chip (S-Pack) Standard Pack	48 pcs / PK
9699100101	Rapichip™ 10-well PCR Chip (M-Pack) Medium Pack -8 PK of Standard Pack	384 pcs / PK
9699100102	Rapichip™ 10-well PCR Chip (L-Pack) Large Pack -16 PK of Standard Pack	768 pcs / PK

Genesystem Co., Ltd.