UF–150 GENECHECKER
Ultra-Fast Real Time
PCR System

Quantitative results in about 12 minutes!

The best tool to make your PCR Diagnostic applications faster and easier

GENECHECKER™ has adopted a special polymer to create a new chip called Rapi:chip™ which enables much faster thermal transfer to the samples when compared to conventional PCR tubes or plates. The thermal cycling mechanism of GENECHECKER™ achieves 8°C/sec ramping rate for both heating and cooling.

Upgraded camera module and state of the art software technology improves real-time analysis

The integrated camera module of GENECHECKER™ fully monitors and records the fluorescence signal of each sample and the recorded fluorescence values are processed and displayed by GENERECORDER software. Using this unique data analysis method, GENECHECKER™ provides very precise results of reactions compared to conventional real-time PCR instruments in the market which are collecting fluorescence data through an optical scanning method. The user interface of GENERECORDER was designed to help general real-time PCR instrument users operate this innovative instrument very easily. GENERECORDER provides amplification curves, melting curves and melting peaks for easy analysis.

GENECHECKER comes with GENERECORDER software and is easily installed. No user’s calibration is needed to run the instrument.
Specifications

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 up Rate: 8.0°C / second
Ramping down Rate: 8.0°C / second
Temperature Range: 30 ~ 65°C (1.0°C Increment) for RT Step
          20 ~ 99°C (1.0°C Increment) for PCR
Sample Format: Polymer Based 3-Dimensional Chip*
Number of Samples per Run: 10
Required Sample Volume: 10μl
Typical PCR Duration: Approx. 12 minutes for 30 cycles (without RT Step)

Method of Detection: Analysis of Digitized Fluorescence Signal
Display: 4 Line Text LCD
Integrated Memory: Saves up to 12 reaction protocols
Type of Excitation: High Brightness LED
Wavelength: 465nm ± 10nm
Number of Detection Channel: 1
Method of Fluorescence Measurement: Integrated Cameral Module
PC Connection: USB 2.0 A to B (PC to Device)
Power: AC 100-230V/50/60Hz (Input Power : DC 12V)
Power Consumption: 120 W
Dimension: 200mm (w) x 200mm (d) x 127mm (h)
Weight: Instrument : 3.2kg (Instrument Only)

Ordering Information

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<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Pack</th>
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<tbody>
<tr>
<td>001151</td>
<td>Model UF-150 GENECHECKER® Ultra-Fast Real-time PCR System</td>
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1. Ct values depending on DNA quantity are displayed. Threshold value to determine Ct values are automatically scaled but user can also set desired threshold value. Tm values of each sample are displayed.

2. By clicking this button, Ct value and Tm value of each well are displayed.

3. User can type the name of sample in each well. By clicking each well, user can select sample of which curves need to be displayed and compared.

4. After 15 cycles are performed, these curves are automatically displayed on the program window. Depending on the expressions of genes, curves having different Ct values are displayed.

5 & 6. By comparing melting curves and peaks, user can confirm that PCR products of each well are its target gene or not.