



UF-300 GENECHECKER™

Real-Time PCR (qPCR) System

Fast, compact and an intuitive platform for point-of-care molecular diagnostics.

- Rapid output - 40 Cycles in 20 Minutes.
- Intuitive user interface with LCD touch panel.
- Compact design - ideal for point-of-care testing.
- Low power consumption.
- Battery operation option.
- Improved temperature accuracy and uniformity.
- Dual detection channels (FAM/ROX) available.



Innovative Technology

The microfluidic chip based PCR method has a compact and sophisticated hardware mechanism which dramatically reduces the TAT of PCR testing to under 20 minutes. The unique polymer chip enables a faster thermal treatment of the samples in comparison to conventional PCR instruments. The thermal cycling mechanism achieves 8°C/sec ramping rate for both heating and cooling.



Dual Detection Channels

The unique test format and state-of-the-art hardware technology make the PCR tests faster than ever. Not only does the UF-300 GENECHECKER™ provide unique, ultra-fast reactions, but this unit also offers improved temperature accuracy and uniformity. This PCR system has dual detection channels (FAM/ROX) for the application demanding internal controls of the test.



Integrated touch panel user interface

The UF-300 GENECHECKER™ real-time PCR system has a touch panel interface so that users can intuitively set the parameters and instantly run tests. This 8 inch sized panel is made of TFT display to provide a brighter view and a faster response.

- The main screen consists of four simple menus.
- Test protocols can be programmed and easily reviewed by the user.
- For a simplified analysis, real-time reaction curves are displayed in the same format as other real-time PCR instruments.



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Specifications

Operating mechanism	Precisely controlled peltier element
Temperature accuracy	± 0.2°C
Temperature uniformity	± 0.2°C (well to well)
Ramp rate	8.0°C / second, heating and cooling
Temperature range	1 ~ 99°C (0.1°C increment)
Sample format	Polymer based 3-dimensional chip
Number of samples per run	10
Required sample volume	10µl
Typical PCR duration	Approx. 20 minutes for 40 cycles
Method of detection	Measurement of fluorescence signal using CMOS module
Display and user interface	7 inch TFT display capacitive touch panel
Type of excitation	High brightness LED
Emission wavelength	FAM : 472 nm / ROX : 575nm
Detection channels	FAM and ROX
Connectors	USB Type A 2 ports
Power	AC 100-240V, 50/60Hz Input / DC 12V Output(MAX 2.0A)
Current consumption	Max. 2.0A
Dimension	218(w) x 200(d) x 142(h) mm
Weight	Instrument : 3.3kg

Ordering Information

Cat. No.	Description	Pack
1399100200	Model UF-300 GENECHECKER™ Real-time PCR System	1 SET

Victory Scientific
PO Box 307
Sewell, New Jersey
(609) 915-5371
cs@victoryscientific.com
victoryscientific.com