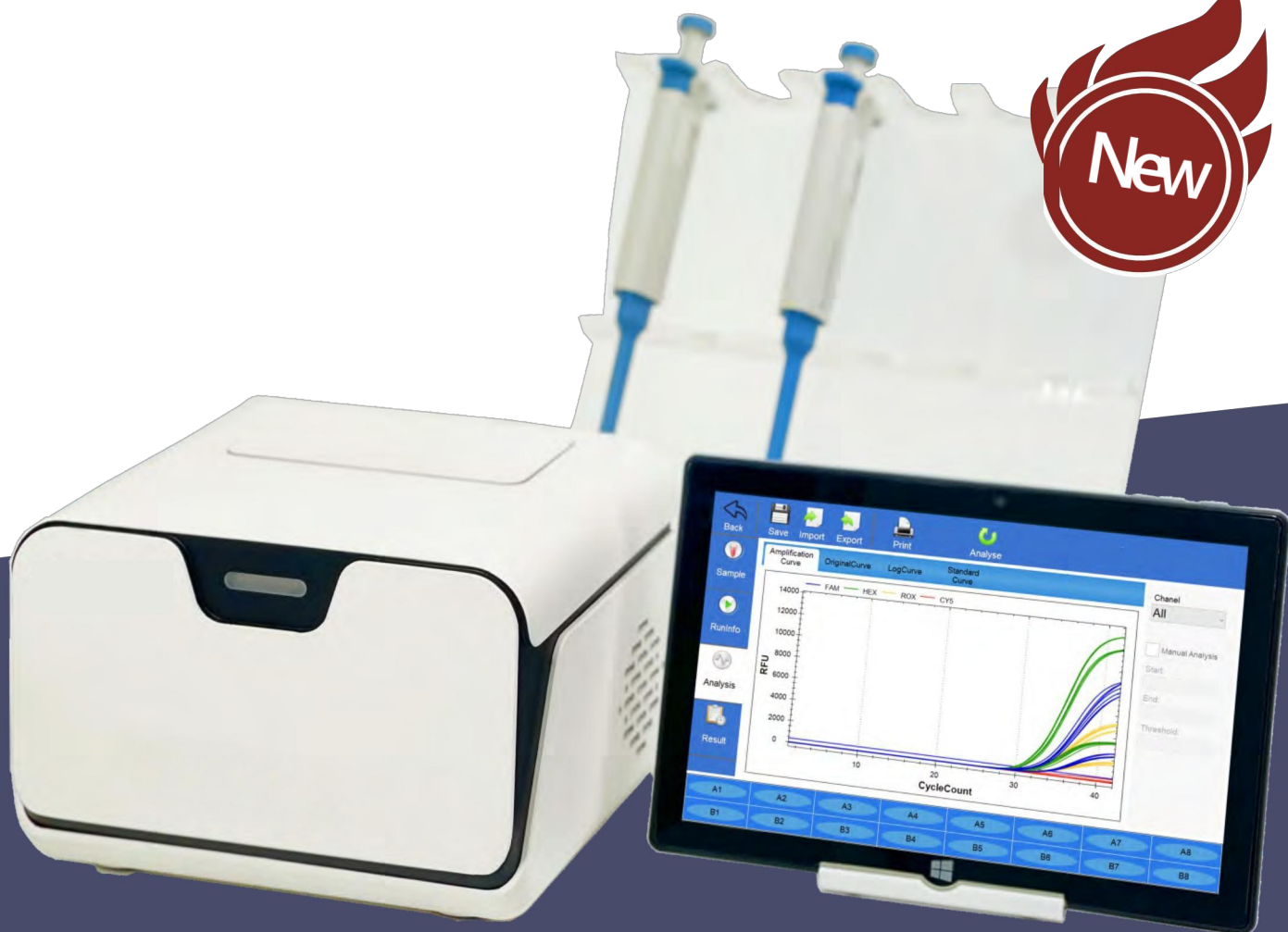


Real-Time PCR Fluorescent Quantitative System

(16 Samples)

UKRT Mini

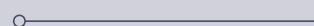


UKRT Mini real-time PCR fluorescent quantitative system integrates a variety of advanced technologies, including using the thermoelectric Peltier cooler module from United States, the maximum ramp rate is 6.5 °C/s, the available cycles is more than 1 million times, and it is compatible with win10 operating system. It is specially designed to meet the needs of rapid nucleic acid detection in clinical, food, environmental and research applications.

Options of 1-4 fluorescence channels and 16 samples can be flexibly customized, and can be freely matched with experiments to achieve real-time and high-sensitivity fluorescence measurement.



24mins



Features

- 01

It adopts high-level thermoelectric Peltier cooler module from United States, and a new generation of semiconductor heating and cooling technology, with a service life of up to one million cycles.
- 02

Fast ramp rate of 6.5° C/s, saving valuable experiment time.
- 03

Adopt maintenance-free and long-life LED light source, no need to replace the light source regularly and recalibrate the dye.
- 04

The built-in standard program file template can help you quickly edit the required files.
- 05

Real-time display of program progress, fast access to experimental data and results.
- 06

USB interface can support U disk to store/retrieve PCR data and support U disk and LAN to update software, an external computer can also be used to control.
- 07

A variety of analysis methods and software algorithms meet the diverse needs of users, and the automatic calculation method greatly simplifies the difficulty of analysis.
-

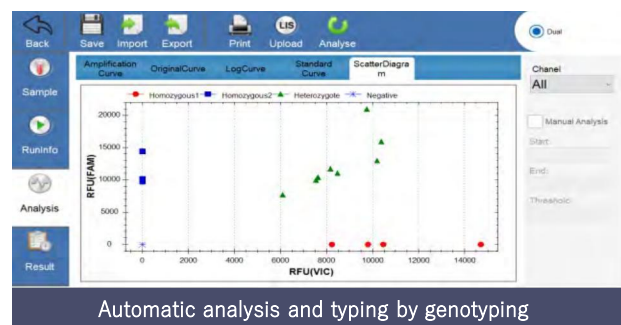
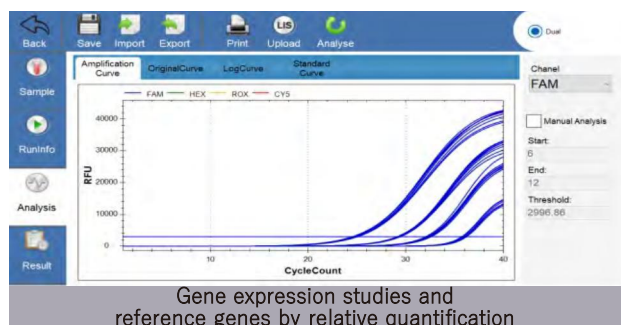
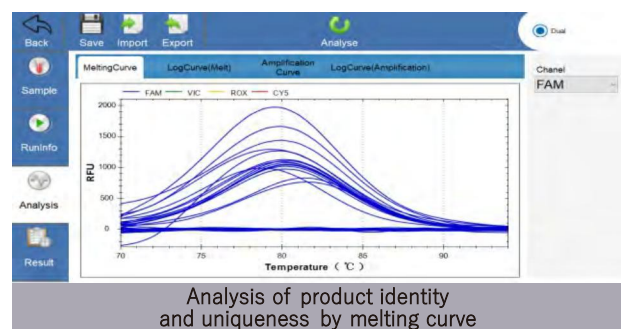
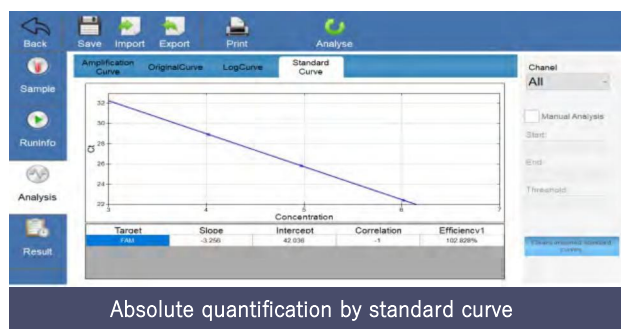
Flexible Selection of Fluorescent Channels

Four Channels (FAM/VIC/ROX/CY5)

Dual Channel (FAM/VIC)

Single Channel (FAM)

Data Analysis



Technical Parameters

Model	UKRT Mini		
Throughput	16 samples		
Consumable	0.2ml thin-walled clear tube, 8x0.2ml thin-walled clear tube		
Reaction Volume	20-100 μ l		
Temperature Control Technology	Thermoelectric Peltier cooler module		
Heating Temperature Range	0-100°C(Accuracy: 0.1°C)		
Ramp Rate	Maximum ramp rate: 6.5°C/s Average ramp rate: not lower than 4.5°C/s		
Temperature Control Accuracy	0.1°C		
Temperature Uniformity	$\pm 0.2^{\circ}\text{C}$		
Temperature Accuracy	$\pm 0.2^{\circ}\text{C}$		
Temperature Range Of Hot Lid	30-110°C (Adjustable, default 105°C)		
Temperature Control Mode	Block/Tube		
Fluorescence Intensity Repeatability	CV $\leq$ 1%		
Fluorescence Intensity Precision	CV $\leq$ 3%		
Fluorescence Channel	4 channels (FAM/VIC/ROX/CY5)	2 channels(FAM/VIC)	1 channel(FAM)
Fluorescence Excitation Light Wavelength	F1 : 465nm, F2 : 525nm F3 : 571nm, F4 : 628nm	F1 : 465nm F2 : 525nm	F1 : 465nm
Fluorescence Detection Wavelength	F1 : 510nm, F2 : 564nm F3 : 612nm, F4 : 692nm	F1 : 510nm F2 : 564nm、	F1 : 510nm
Excitation Light Source	High brightness LED, long service life, no maintenance		
Detector	Photodiode (PD)		
Dynamic Range	1-10 ¹⁰ Copies		
Detection Sensitivity	Can detect single copy genes		
Sample Detection Repeatability	CV $\leq$ 3%		
Linearity	r $\geq$ 0.990		
Software Analysis Function	Quantitative/Qualitative, Melting Curve, Genotyping		
Print	Supports direct printing of reports		
Control Method	External computer control, Win10 operating system		
Interface	USB2.0		
Dimension	width x depth x height=220 $\times$ 200 $\times$ 150mm		
Weight	3.5kg		
Input Voltage	DC15V		
Output Power	240W		