



FEATURES

- 48*0.2ml, compatible with 8-tube strip and single tube
- Independent and intelligent temp. control over 4 zones
- 4-color fluorescence channels, applicable for most tests
- Support multiple connections to one computer and LIMS/LIS system
- Run experiments in 30s without preheating time

VGT-688

SPECIFICATIONS

Basic	Sample Capacity	48x0.2ml
	Applicable Consumables	0.2ml single tube, 8x0.2ml tube strip
	PCR Volume Range	20-120μL
	Working Temperature	15-30°C
	Storage Temperature	-20-55°C
	Ambient Relative Humidity	≤85%
	Dimensions and Weight	466*310*273mm (W*D*H), 17.5kg
	Power Supply	220 V~, 50 Hz, 865VA
Temp. Control System	Heating/cooling Method	Semiconductor heating method, independent and intelligent temp. control over 4 zones
	Temperature Range	4°C-100°C
	Ramp Rate	Heating: 4°C/S, Cooling: 4°C/S
	Temperature Accuracy	≤0.5°C
	Temperature Uniformity	±1°C
	Temperature Control technology	4-zone independent temp. control combined with thermal compensation tech
	Gradient Temp. Function	Yes
	Gradient Temp. Columns	8
	Gradient Temp. Range	1°C-32°C
	Gradient Temp. Zones	4
Detection System	Gradient Temp. Set Range	30°C-100°C (Room temperature is lower than 28°C)
	Excitation Source	LED
	Detection Device	PD
	Light Propagation Medium	Dual-48 high temperature resistant optical fibers for Space
	Detection Channels	4
	Excitation Range	1st Channel: 470nm±10nm 2nd Channel: 525nm±10nm 3rd Channel: 570nm±10nm 4th Channel: 620nm±10nm
	Detection Range	1st Channel: 520nm±10nm 2nd Channel: 570nm±10nm 3rd Channel: 620nm±10nm 4th Channel: 670nm±10nm
	Dye Compatibility (name)	FAM/SYBR Green/Eva Green/LC Green/Fluorescein; VIC/HEX/TET/Cy3/JOE; ROX/Cy3.5/Texas Red; Cy5 etc
	Detection Sensitivity	≥1 copy
	Confidence Coefficient	99.90%
	Sensitivity	Allowed 1.5-fold in single reaction
	Sample Detection Repeatability	CV≤3%
Software	Linear Range	1 ⁰ -10 ⁹ copy
	Sample Linearity	≥0.98
	Software Language	English
	Control Method	Connect to PC for data analysis, USB, support LIMS/LIS system
	Software Function	Real-time monitoring, automatic identification and calculation of positive and negative results, automatic establishment of standard curve, absolute/relative quantification, multiple quantification, melting curve, gene mutation, key method genotyping (Taqman probe method), Tm value determination, quality control graphic analysis , PCR amplification efficiency, etc.
	Output	EXCEL/WORD/PDF