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FLUORESCENT QUANTITATIVE PCR INSTRUMENT

QPCR technology is widely used in pathogenic microbial detection, tumor gene detection, new drug development, scientific research, food hygiene and safety testing, prenatal diagnosis and eugenics and childbirth, with its advantages of high sensitivity, high specificity and accurate quantification. TRANSGEN has dual-channel 16-well (TSQ-2016), 48-well (TSQ-2048) and quad-channel 96-well (TSQ-4096) qPCR instruments for more stable fluorescence signals, shielded background interference, higher fluorescence signal sensitivity and signal-to-noise ratio, and more accurate results. TSQ-2016 can automatically lock the hot lid pressure to prevent evaporation, no need for a computer, straight out of the results. The TSQ-2048 and TSQ-4096 feature a drawer-style sample stage design for easy sample picking. With the real-time quantitative detection reagent, it can fully meet the needs of users for different throughput.

Features

01

Full touch screen operation

The reaction process can be viewed in real time.

02

Stable fluorescence signal

SSLP short-path static fluorescence CCD imaging technology is adopted, which has a more stable signal and higher sensitivity.

03

Accurate detection results

Top detection technology masks background interference for more accurate results.

04

Strict temperature control

The sample stage temperature accuracy is high, the uniformity is good, and the experiment is reproducible.



TSQ-2016 (dual-channel, 16-well)



TSQ-2048 (dual-channel, 48-well)



TSQ-4096 (quad-channel, 96-well)

Product Parameters

Instrument performance	Model	TSQ-2016	TSQ-2048	TSQ-4096
	Sample stage specifications	16-well×0.1 mL	48-well×0.1 mL	96-well×0.1 mL
	Sample volume	10-100 µL	10-50 µL	10-50 µL
	Applicable tube type	White 0.1 mL low profile tube, 0.1 mL low profile eight-row tube, flat cover	White or transparent 0.1 mL low profile tube, 0.1 mL low profile eight-row tube, flat cover	White or transparent 0.1 mL low profile tube, eight-row tube or 96-well plate, flat cover
	Communication interface	Ethernet and USB 2.0 interface, support U disk export data		
Temperature performance	Display screen	7-inch high-definition true-color full touch screen	7-inch full true-color TFT LCD touch screen	10-inch full true color TFT LCD touch screen, adjustable within 90 degrees
	Sample stage temperature range	4 °C-100 °C	0 °C-105 °C	0 °C-105 °C
	Maximum heating rate	5 °C/sec	7 °C/sec	6 °C/sec
	Maximum cooling rate	4 °C/sec	5 °C/sec	5 °C/sec
	Hot lid temperature	30-112 °C adjustable		
	Sample stage temperature uniformity	± 0.25 °C (the sample stage temperature reaches 90 °C)	≤ ± 0.2 °C (the sample stage temperature reaches 90 °C)	≤ ± 0.2 °C (the sample stage temperature reaches 90 °C)
	Sample stage temperature accuracy	± 0.1 °C (after the sample stage temperature reaches 90 °C and stabilizes for 10 seconds)	≤ ± 0.1 °C (after the sample stage temperature reaches 90 °C and stabilizes for 10 seconds)	≤ ± 0.1 °C (after the sample stage temperature reaches 90 °C)
Fluorescence detection performance	Light source	Long life LED		
	Kinetic detection range	1-10 ⁹		
	Sensitivity	≥ 1 copy		
	Fluorescent dyes	F1: FAM, SYBR Green F2: VIC, HEX, JOE, CY3, NED	F1: FAM, SYBR Green F2: VIC, HEX, TET, JOE, CY3, NED	F1: FAM, SYBR Green F2: VIC, HEX, TET, JOE, CY3, TAMARA, NED F3: ROX, TEXAS-RED F4: CY5
	Fluorescence excitation wavelength	300-800 nm		
Fluorescence detection wavelength	500-800 nm			
Other performance	Data export format	EXCEL, TXT, PDF, WORD		
	Voltage range	Global power 100-240 V, 50-60 Hz		
	Maximum power	220 W	400 W	600 W
	Weight	3.6 kg	8.2 kg	13 kg
	Dimensions (L×W×H)	305×179×186 mm	320×205×380 mm	334×280×365 mm

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