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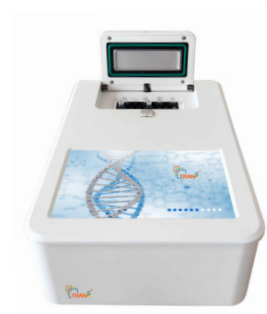
**CliniSciences Group**

# CONSTANT TEMPERATURE FLUORESCENCE DETECTOR

TQC-16 Constant Temperature Fluorescence Detector is a portable isothermal nucleic acid amplification instrument, which is specially used for fluorescence detection equipment with constant temperature amplification technology. A, B dual reaction chambers, FAM, VIC dual fluorescence channels, which can meet different detection requirements. The software guidance is simple and intuitive, and the equipment operation program is simple. Touch screen operation, single machine can complete all settings, detection, interpretation and storage. Matched with reagents, it can be used in basic science, food safety testing, pathogen detection, etc.

### Features

- Portable: small size, light weight and simple shape
- High selectivity: it can be used for single or double fluorescence channel experiments, A and B chambers can be run synchronously or independently, with automatic mixing function
- Good compatibility: 16 × 0.2 mL reaction modules, compatible with flat cover eight-row tubes and single tubes
- Simple operation: the software guidance is simple and intuitive, the equipment operation procedure is simple, and the touch screen operation is simple and fast
- Reliable results: precise temperature control, real-time monitoring of fluorescence signals



### Product Parameters

Model	TQC-16
Sample throughput	16 well
Detection wavelength	Channel 1: FAM excitation center wavelength 494 nm, emission center wavelength 518 nm
Channel 2: VIC excitation center wavelength 538 nm, emission center wavelength 553 nm	20-50 $\mu$ L
Reaction volume	20-50 $\mu$ L
Applicable tube type	200 $\mu$ L PCR single tube or eight-row tubes can be used, the consumables need to have transparent side walls, flat caps are recommended
Working temperature	0 - 30 $^{\circ}$ C
Temperature uniformity	$\pm$ 0.25 $^{\circ}$ C
Temperature accuracy	$\pm$ 0.1 $^{\circ}$ C
Working humidity	5%~95% RH, no condensation
Input voltage	176 VAC~245 VAC, adapter output is 24 VDC 5A
Sensitivity	Minimal detectable single copy
Weight(g)	3560
Dimensions (L×W×H)	313 mm×214 mm×127 mm
Display screen	TFT liquid crystal display touch screen, pixel 1024×600

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