

Ever better at  
the entry level



## QuantStudio 1 实时荧光定量 PCR仪 -简便至极

Applied Biosystems QuantStudio 1实时荧光定量PCR仪系统成为追求高品质和可靠性的理想选择。

它经济实惠，对开始qPCR实验或预算有限的实验室提供工作所需全部基本功能。

QuantStudio 1拥有QuantStudio系列仪器先进硬件工艺，还带给用户近乎完美的操作体验。

### 易于使用

8.5英寸大触摸屏，配置了96孔0.2mL等温反应模块和三种最常用的荧光激发和过滤组件，足以胜任多重实时荧光定量PCR分析（multiplex qPCR）任务。

**Thermo Fisher Connect云平台，用户可以随时随地访问、分析和共享数据**

实现仪器运行情况远程监控，在线分析复杂的数据集，安全存储数据，并与同事共享实验结果。



拥有卓越的服务和支持 — 可寻求全球1400多名支持专家支持，帮助取得成功；灵活服务计划可帮助您快速入门并保持仪器稳定运行。现场仪器培训，由经验丰富且训练有素的应用科学家提供实验者服务。

QuantStudio 1 实时荧光定量PCR仪提供交互式触摸屏界面、直观软件、预优化的协议模板以及基于 Web 浏览器或桌面分析的选项。

# QuantStudio 1 Real-Time PCR System

## 检测性能表现 Performance specifications

<b>Dye compatibility</b>	<b>Precalibrated dyes:</b> FAM and SYBR Green	<b>Precalibrated dye:</b> VIC	<b>Precalibrated dyes:</b> JUN and ROX
	<b>Custom dye:</b> SYTO 9	<b>Custom dyes:</b> HEX, TET, and JOE	<b>Custom dye:</b> Texas Red
<b>Multiplexing</b>	Up to 3 targets		
<b>Dynamic range</b>	10 logarithmic units		
<b>Sensitivity (resolution)</b>	Detect differences as small as 1.5-fold in target quantities in singleplex reactions		
<b>Sensitivity (no. of copies)</b>	1 copy		
<b>Research areas</b>	<ul style="list-style-type: none"> <li>• Infectious diseases</li> <li>• Pathogen detection</li> <li>• Translocation analysis</li> <li>• Viral load analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Drug metabolism</li> <li>• Plant sciences</li> <li>• Agricultural biotechnology</li> <li>• Oncology</li> </ul>	<ul style="list-style-type: none"> <li>• Inherited diseases</li> <li>• Epigenetics</li> <li>• Synthetic biology</li> <li>• Stem cells</li> </ul>
<b>Key applications</b>	<ul style="list-style-type: none"> <li>• Gene expression</li> <li>• Copy number variation</li> <li>• SNP genotyping</li> </ul>	<ul style="list-style-type: none"> <li>• Mutation scanning</li> <li>• Mutation detection</li> </ul>	<ul style="list-style-type: none"> <li>• MicroRNA profiling</li> <li>• Methylation analysis</li> </ul>
<b>System configuration</b>	Stand-alone, PC connection, or direct connection to Thermo Fisher Connect via LAN or Wi-Fi		
<b>International standards</b>	ISO 13485		

## Software specifications

<b>Cloud design and analysis software</b>	<ul style="list-style-type: none"> <li>• Desktop option using Microsoft™ Windows™ 10 operating system</li> <li>• Web browser-based software option; run on PC or Mac™ computer</li> </ul>
<b>Run programming options</b>	<ul style="list-style-type: none"> <li>• Preoptimized protocol templates, or ability to customize</li> <li>• Programmable and manual pause</li> <li>• Locked workflows</li> </ul>
<b>Chinese language software</b>	Available
<b>MIQE compliance</b>	Real-time PCR data markup language (RDML) export format
<b>Single-plate analysis</b>	Absolute and relative gene expression, SNP genotyping, presence/absence

Find out more at [thermofisher.com/quantstudio1](https://thermofisher.com/quantstudio1)

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## 技术规格 Specifications

QuantStudio 1 Real-Time PCR System	
样品通量	96-well
反应体积	10–100 $\mu$ L
仪器外形尺寸和重量 (H x W x D)	40 x 27 x 50 cm, <26 kg
激发光源	Bright white LED
光学检测	3 coupled filters
激发光/检测光波长范围	450–600 nm/500–640 nm
Multiplex qPCR检测靶标种数	Up to 3 targets
2D条码识别功能	Optional (compatible with external readers)
反应模块升温/冷却方法	Peltier
模块最高变温速率	3.5°C/sec
样品平均变温速率	1.8°C/sec
反应模块温度均一性	0.4°C
反应模块温度准确度	0.25°C
每轮运行反应完成时间	<40 min
可兼容的常见荧光染料	FAM/SYBR™ Green/SYTO™ 9; VIC/HEX/TET/JOE, JUN/ROX™/Texas Red™ dyes
21 CFRPart 11 合规管理功能 <sup>e</sup>	No
检测极限值	1 copy
检测灵敏度	Detect differences as small as 1.5-fold quantities in singleplex reactions

## 订购信息

Product	Cat. No.
QuantStudio 1 Real-Time PCR System, 96-well, 0.2 mL block	A40426
QuantStudio 1 Real-Time PCR System, 96-well, 0.2 mL block, Laptop	A40427
QuantStudio 1 Real-Time PCR System, 96-well, 0.2 mL block, Desktop	A40428

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