QuantStudio 3 Real-Time PCR System

Now you can get up and running quickly with the Applied Biosystems™ QuantStudio™ 3 Real-Time PCR System, an affordable high-performance real-time PCR solution designed for users of all levels of experience. With an interactive touch screen interface, intuitive instrument software, preoptimized protocol templates, and options for Web browser–based or desktop analysis, the QuantStudio 3 Real-Time PCR System offers superior performance and quality. Leverage the power of Thermo Fisher Cloud to stay connected to your data anywhere, anytime when you are online.

QuantStudio 3 Real-Time PCR System performance specifications

Dye compatibility	FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™/NED™/TAMRA™/Cy™3, JUN™, ROX™/Texas Red™		
Multiplexing	Up to 4 targets		
Dynamic range	10 logs		
Sensitivity (resolution)	Detect differences as small as 1.5-fold in target quantities in singleplex reaction		
Sensitivity (no. of copies)	1 copy		
Research areas	Infectious diseases Pathogen detection Translocation analysis Viral load analysis	Drug metabolism Plant sciences Agricultural biotechnology Oncology	Inherited diseases Epigenetics Synthetic biology Stem cells
Key applications	Gene expression Copy number variation High resolution melt	SNP genotyping Mutation scanning Mutation detection	Protein thermal shift MicroRNA profiling Methylation analysis

QuantStudio 3 Real-Time PCR System specifications

Dimensions and weight	27 x 50 x 40 cm (W x D x H), <26 kg
Sample capacity (wells)	96 (0.1 mL and 0.2 mL blocks available)
Reaction volume	10–30 µL for 0.1 mL block; 10–100 µL for 0.2 mL block
Maximum ramp rate	6.5°C/sec
Average sample ramp rate	3.66°C/sec
Temperature uniformity	0.4°C

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QuantStudio 3 Real-Time PCR System specifications, *continued*	
VeriFlex™ Blocks	3 independent temperature zones
Heating/cooling method	Peltier
Run time	Less than 30 min
Calibration	Factory calibrated
Onboard memory	10 GB, which translates to approximately 2,000–5,000 run files
Electrical approvals	IEC, CE
Excitation (light source)	Bright white LED
Filters/colors	4 coupled filters
Excitation/detection range	450–600 nm/500–640 nm
Data acquisition	Whole-plate imaging
Touch screen	Interactive touch screen with real-time application viewing
Online ecosystem	Thermo Fisher Cloud
Communication interface	Thermo Fisher Cloud, USB, or Wi-Fi
External devices	2D barcode reader via USB connection
System configuration	Stand-alone, PC connected, or direct connection to Thermo Fisher Cloud via LAN or Wi-Fi
International standards	ISO 13485

QuantStudio™ 3 Real-Time PCR Software specifications	
Cloud design and analysis software	• Desktop option using Microsoft™ Windows™ 7 operating system • Web browser–based software option; run on PC or Mac™ computer
Run programming options	• Preoptimized protocol templates or ability to customize • Programmable and manual pause • Locked workflows
Chinese language software	Available
MIQE compliance	Real-time PCR data markup language (RDML) export format
Single-plate analysis	Absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt
Multiplate analysis	Gene expression studies, SNP genotyping studies

Ordering information

Product	Cat. No.
QuantStudio 3 Real-Time PCR System,* 96-well, 0.1 mL block	A28136
QuantStudio 3 Real-Time PCR System,* 96-well, 0.2 mL block	A28137

*Does not include computer. Additional Cat. Nos. are available that include laptop or desktop computer.

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