

Applied Biosystems QuantStudio 12K Flex Real-Time PCR System 4470661 96-Well

The Applied Biosystems QuantStudio 12K Flex Real-Time PCR System is a high-throughput qPCR platform capable of up to 12,000 data points per run across five interchangeable block formats.

- Five interchangeable block formats: 96-well, Fast 96-well, 384-well, TaqMan Array Card, and OpenArray — scale from a single reaction to 12,000 data points
- Enhanced OptiFlex detection system with 6 excitation and 6 emission filters across 21 dye colour combinations for multiplex flexibility
- Intuitive touchscreen interface with Ethernet, dual USB, and RS232 connectivity for seamless lab integration

MANUFACTURER	MODEL	CONDITION	IN STOCK	SKU
Applied Biosystems	12K Flex	Used	0	3633 1E04

The Applied Biosystems QuantStudio 12K Flex Real-Time PCR System (REF 4470661) is a highly flexible, comprehensive real-time PCR platform from Thermo Fisher Scientific that leverages the best of Applied Biosystems real-time PCR technology in a single instrument. Designed for research use only, it enables laboratories to scale experiments from a single reaction to 12,000 data points, supporting applications including gene expression analysis, SNP genotyping, copy number variation, microRNA profiling, high resolution melt, pathogen detection, and digital PCR.

Key Features:
- Five interchangeable sample block formats changeable from the front of the instrument in under one minute without secondary tools
- Enhanced OptiFlex System (White LED excitation) providing enhanced fluorescence detection for sensitive data analysis
- Up to 9 logs of linear dynamic range (standard blocks); up to 7 logs (OpenArray)
- Resolution: detect as little as 1.5-fold changes in target quantities in singleplex reactions
- Sensitivity: down to 1 copy
- Intuitive touchscreen interface with walk-away operation and remote monitoring of up to 10 instruments
- LIMS integration support and optional 21 CFR Part 11 compliance (SAE) module
- Compatible with QuantStudio 12K Flex Software (Mac and PC), ExpressionSuite, Genotyper, and DigitalSuite software
- Stores over 100 runs on-board

Technical Specifications:
Manufacturer: Applied Biosystems (Thermo Fisher Scientific)
Product Line: QuantStudio 12K Flex
Catalog Number (REF): 4470661
Supported Block Formats: 96-well standard (10–100 µL), 96-well Fast (10–30 µL), 384-well (5–20 µL), TaqMan Array Micro Fluidic Cards (~1 µL), OpenArray Plates (~33 nL)

Excitation Source: Enhanced OptiFlex System — White LED
Optics: 6 excitation filters (450–670 nm), 6 emission filters (500–720 nm), 21 colour combinations
Dynamic Range: Up to 9 logs linear (standard); up to 7 logs (OpenArray)
Sensitivity: Down to 1 copy
Run Time (Fast 96-well): ~30 minutes
Run Time (384-well): ~35 minutes
Run Time (OpenArray, gene expression): ~2 hours
Run Time (OpenArray, genotyping): ~4 hours
Maximum Throughput: Up to 110,000+ data points per 8-hour day (with AccuFill System)
Block Change Design: Front-loading, tool-free, under 1 minute
Instrument Control: Touchscreen, networked computer, or attached computer
Connectivity: Ethernet, USB (×4 total, 2 front / 2 rear), RS232
Power Rating: 100–240 VAC, 50/60 Hz
Weight: 69 kg (152 lbs)
Dimensions (W × D × H): 51 × 67 × 74 cm (20 × 26.3 × 29.1 in)
Noise Output: <60 dB at idle
Compliance: EN61326; Class B, Group 1; UL Listed (Laboratory Equipment 3Z77); CE marked
Manufactured In: Singapore
For Research Use Only — Not for use in diagnostic procedures.



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O sistema de PCR em tempo real Applied Biosystems QuantStudio 12K Flex (REF 4470661) é uma plataforma de PCR em tempo real abrangente e altamente flexível da Thermo Fisher Scientific, que reúne o que há de melhor na tecnologia de PCR em tempo real da Applied Biosystems em um único instrumento. Projetado exclusivamente para uso em pesquisa, ele permite que laboratórios escalonem experimentos desde uma única reação até 12.000 pontos de dados, oferecendo suporte a aplicações como análise de expressão gênica, genotipagem de SNPs, variação do número de cópias, perfil de microRNA, análise de curva de dissociação de alta resolução (HRM), detecção de patógenos e PCR digital.

Principais características:

- Cinco formatos de blocos de amostra intercambiáveis, que podem ser trocados pela parte frontal do instrumento em menos de um minuto e sem necessidade de ferramentas adicionais;

- Sistema OptiFlex aprimorado (excitação por LED branco), proporcionando detecção de fluorescência otimizada para uma análise de dados sensível;

- Faixa dinâmica linear de até 9 ordens de magnitude (blocos padrão); até 7 ordens de grandeza (OpenArray) - Resolução: detecção de alterações de apenas 1,5 vezes nas quantidades do alvo em reações singleplex - Sensibilidade: até 1 cópia - Interface touchscreen intuitiva com operação autônoma ("walk-away") e monitoramento remoto de até 10 instrumentos - Suporte à integração com LIMS e módulo opcional de conformidade com a norma 21 CFR Part 11 (SAE) - Compatível com o software QuantStudio 12K Flex (Mac e PC), ExpressionSuite, Genotyper e - Armazena mais de 100 corridas internamente Dados

Fabricante: Applied Biosystems (Thermo Fisher Scientific)

Produto: line: QuantStudio 12K Flex

Catálogo Número (REF): 4470661

Formatos de bloco suportados: padrão de 96 poços (10–100 µL), Fast de 96 poços (10–30 µL),

384 poços (5–20 µL), cartões microfluídicos TaqMan Array (~1 µL), placas OpenArray (~33

nL)