ThermoFisher SCIENTIFIC

The Studio of the future belongs in your lab

Real-time PCR

QuantStudio real-time PCR (qPCR) systems

applied biosystems

Innovative technology meets groundbreaking research

Every lab is unique. That's why you deserve a qPCR platform that fits your needs. Perhaps you're looking for simplicity on a budget or reliable results from limited samples. Maybe your research requires high throughput for maximum productivity, or you want absolute answers to take your work to the next level. Whatever you need, there's an Applied Biosystems™ QuantStudio™ qPCR system to suit your research.

Your research, your way

QuantStudio real-time PCR system

	Applied Biosystems™ real-time PCR systems				
	 QuantStudio™ 3 Real-Time PCR System	 QuantStudio™ 5 Real-Time PCR System	 QuantStudio™ 6 Pro Real-Time PCR System	 QuantStudio™ 7 Pro Real-Time PCR System	 QuantStudio™ 12K Flex Real-Time PCR System
Block format	Fixed block		Interchangeable block		
Blocks	96-well (0.1 mL or 0.2 mL)	96-well (0.1 mL or 0.2 mL) 384-well		96-well (0.1 mL or 0.2 mL) 384-well Applied Biosystems™ TaqMan™ Array Card block	96-well (0.1 mL or 0.2 mL) 384-well TaqMan Array Card block Applied Biosystems™ OpenArray™ 384-well Sample Plate
Multiplexing	Up to 4 targets	96-well, up to 6 targets 384-well, up to 5 targets	Up to 5 targets	Up to 6 targets (96-well and 384-well blocks)	
Automation-ready	No		Upgradeable to a QuantStudio 7 Pro system	Yes	
Run time	<30 min runs	96-well, <30 min runs 384-well, <35 min runs			
Applied Biosystems™ VeriFlex™ Blocks technology	Yes				No
Gradient capacity	VeriFlex 3-zone (5°C zone-to-zone)	VeriFlex 6-zone (5°C zone-to-zone) 0.2 mL model	VeriFlex 3-zone (5°C zone-to-zone)	VeriFlex 6-zone (5°C zone-to-zone) 0.2 mL model	N/A
Filter	4 coupled excitation and emission filters	6 decoupled excitation and emission filters (0.1 mL or 0.2 mL) 5 coupled excitation and emission filters (384-well)	5 coupled excitation and emission filters	6 decoupled excitation and emission filters (21 filter combos)	
Dye compatibility	FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™/NED™/TAMRA™/ Cy®3, JUN™/ROX™/ Texas Red™ dyes	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/ Cy3, JUN/ROX/Texas Red, Mustang Purple™/ Cy®5/LIZ™/Alexa Fluor™ 647 dyes, Cy®5.5 dye (96-well only)	FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/ TAMRA/Cy3, JUN/ROX/Texas Red, Mustang Purple/ Cy5/LIZ, Cy5.5 dyes, custom dyes		SYBR, NED, Texas Red, Cy3, TAMRA, ROX, Cy5, JOE, FAM, VIC, Mustang Purple dyes Instrument may be calibrated within the confines of the excitation and emission filters. See available calibration plates.
Features to assist with 21 CFR Part 11 compliance	No	Yes	Upgradeable to a QuantStudio 7 Pro system	Yes	Yes
Footprint: W x D x H (cm)	27 x 50 x 40		33.8 x 52.5 x 54.7		53 x 70 x 75
Touchscreen	8.4 in. capacitive		12 in. capacitive		10.4 in. capacitive
System configuration	Stand-alone, PC-connected, or direct connection via LAN or Wi-Fi to the Thermo Fisher™ Connect Platform				PC-connected, LAN
Dynamic range	10 logs				10 logs OpenArray plate: 7 logs
Analytical sensitivity	1 copy				
Discrimination and resolution	1.5-fold concentrations				1.5-fold concentrations OpenArray plate: 2-fold

The QuantStudio 3 system is simple, affordable, and designed to get users with all levels of experience up and running quickly.

I need outstanding simplicity

Intuitive and easy to use at all levels of experience

QuantStudio 3 Real-Time PCR System

The QuantStudio 3 Real-Time PCR System is a compact and accessible solution connecting you to your data like never before. Designed to be the easiest to use and most interactive instrument from the QuantStudio family, the QuantStudio 3 system offers the high-performance analysis expected from Applied Biosystems™ instruments.

Key benefits

Easy to use

The intuitive software design enables easy experiment setup, and the interactive system allows you to get results faster. The upgraded touchscreen offers an enhanced experience with increased touch sensitivity and natural interface navigation.

qPCR connectivity

Directly connect to the Thermo Fisher Connect Platform to access and analyze your data anytime from anywhere with an internet connection. Back up and share files to collaborate with colleagues worldwide. Monitor your runs in real time from mobile devices through the Applied Biosystems™ Instrument Connect mobile app.

Ready to run

Factory-calibrated for optical and thermal accuracy, the instrument is delivered ready for quick installation and use.

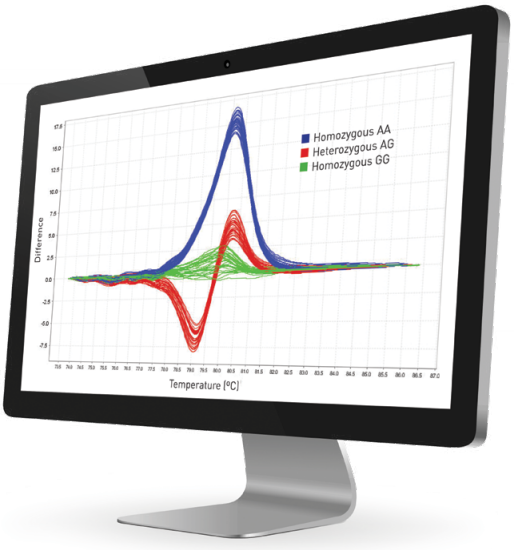
Application spotlight

Identify more new variants quickly and accurately with high-resolution melt analysis

High-resolution melt (HRM) analysis is based on detecting small anomalies in PCR melting (dissociation) curves. It is enabled by improved double-stranded DNA (dsDNA)-binding dyes used in conjunction with real-time PCR instrumentation that has precise temperature ramp control and advanced data capture capabilities. Achieve high-throughput HRM analysis using a QuantStudio qPCR system with software, built-in protocols, and calibrations.

Advantages of HRM analysis

- Low reagent and sample consumption
- Fast, simple workflow
- Thermal optimization not required



The QuantStudio 5 system combines ease of use and system connectivity with powerful options to enable maximum control.

I need more control

Take charge of how you create and manage your results

QuantStudio 5 Real-Time PCR System

The QuantStudio 5 Real-Time PCR System is a high-performance benchtop instrument that allows you greater flexibility with your experimental data. Interact with innovative advancements in touchscreen usability, access your data more easily than ever before, and securely share your results with collaborators around the world.

Key benefits

Multiplex with ease

Six excitation filters and six emission filters offer 21 different color combinations, allowing a broad range of detection dyes and maximum multiplexing.*

qPCR connectivity

Directly connect to the Thermo Fisher Connect Platform to access and analyze your data anytime from anywhere with an internet connection. Back up and share files to collaborate with colleagues worldwide. Monitor your runs in real time from mobile devices through the Instrument Connect mobile app.

Precise temperature control

The VeriFlex Block on the QuantStudio 5 system provides six independent temperature zones for precise control over your PCR optimization.*

Confidence in your records

A built-in security, auditing, and electronic signature (SAE) package comes standard on the QuantStudio 5 system to assist you with 21 CFR Part 11 compliance.

Protect your work

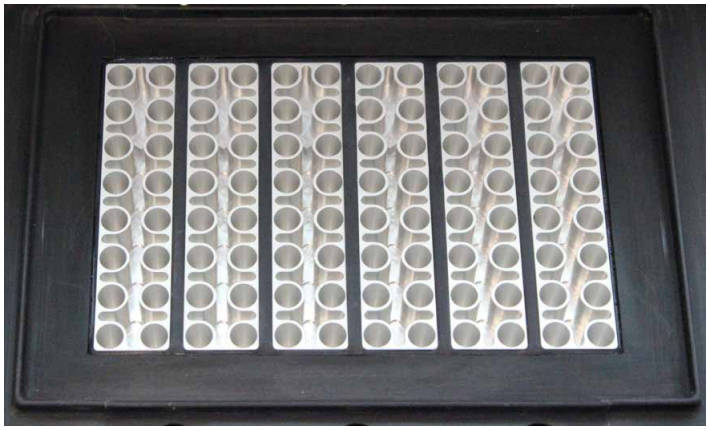
Individual user accounts and the ability to lock a protocol template give you peace of mind that only you control your runs.

Application spotlight

Better than gradient with VeriFlex Blocks

VeriFlex technology provides independent temperature zones that offer enhanced functionality and precise control over your qPCR runs. The QuantStudio 3 system has three programmable zones, and the QuantStudio 5 system has six programmable zones for the 96-well standard and 96-well fast blocks. These independent zones are ideal for qPCR optimization and allow multiple experiments to be conducted in the same run. Unlike standard gradients that give a sigmoidal temperature curve across the columns, VeriFlex Blocks help deliver accurate temperatures across each and every zone.

* 384-well format includes five colors, with no VeriFlex Block temperature control.



The VeriFlex Block provides independent temperature zones.

The QuantStudio 6 Pro system gives you flexibility at an affordable price.

I need room to grow

Flexibility for today, tomorrow, and beyond

QuantStudio 6 Pro Real-Time PCR System

The QuantStudio 6 Pro Real-Time PCR System is ideal for laboratories with multiple applications or changing throughput needs. With an upgradable path to a QuantStudio 7 Pro system to accommodate automation or TaqMan Array cards, the QuantStudio 6 Pro system is the ideal qPCR platform if your needs change in the future.

Key benefits

Flexibility that minimizes large, up-front capital investment

With one instrument, you can interchange between 96-well, 96-well fast, and 384-well formats.

Skip the learning curve

The intuitive software, easy touchscreen setup, and effortless block change are designed to let you get started right away.

Performance you can trust

Enables detection of changes as small as 1.5-fold in singleplex reactions over a 10-log dynamic range.

Upgrade capabilities when you need them

The QuantStudio 6 Pro System can be easily upgraded to a QuantStudio 7 Pro System by a field service engineer to give you additional automation, throughput, and multiplexing capabilities.

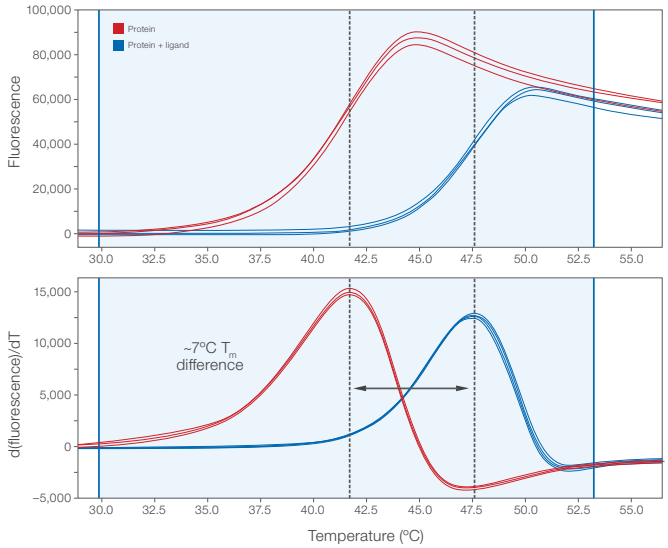
Application spotlight

Analyze protein melt profiles and protein thermal stability

Applied Biosystems™ Protein Thermal Shift™ Software and reagents enable a real-time PCR solution for differential scanning fluorometry. Run a real-time protein melt experiment to screen for ligand-protein binding, optimize buffer conditions, or identify protein stability changes. The Protein Thermal Shift Software solution offers a high-throughput and inexpensive alternative to traditional methods.

Advantages of the Protein Thermal Shift Software solution

- Results in as few as five minutes
- User-friendly software for differential scanning fluorometry
- Run thousands of reactions per day at pennies per reaction



Fluorescence melt curves and derivative curves for a protein before (red) and after (blue) a ligand is added.

Help advance your research further with the application versatility of the QuantStudio 7 Pro system.

I need more versatility

Moving from application to application is easier than ever with additional dyes, formats, and automation potential

QuantStudio 7 Pro Real-Time PCR System

The QuantStudio 7 Pro Real-Time PCR System delivers reliability, sensitivity, and accuracy with the versatility of four interchangeable blocks. The QuantStudio 7 Pro system is optimized to enable the broadest range of qPCR applications.

Key benefits

Accomplish more, faster

Run hundreds of real-time reactions using TaqMan Array microfluidic cards integrated with an automation robot. The QuantStudio 7 Pro system can help maximize your throughput capabilities for automated environments.

High application versatility

Offers optimized protocols, reagents, and intuitive software for the broadest range of applications, including:

- Gene expression
- Long noncoding RNA analysis
- Primary microRNA (pri-miRNA) analysis
- Mutation detection
- High-resolution melt analysis
- SNP genotyping
- MicroRNA profiling
- Protein thermal shift analysis

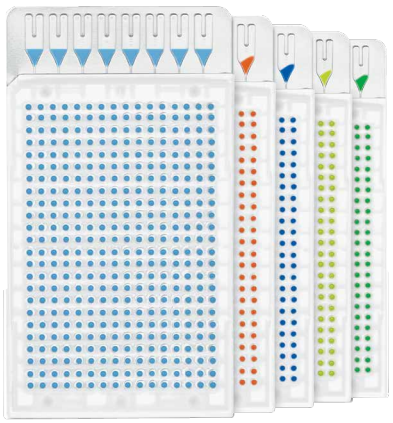
Get results you can trust

Enabling improved well-to-well and instrument-to-instrument data accuracy, the Applied Biosystems™ OptiFlex™ System features six decoupled excitation and emission filter channels with 21 filter combinations for maximum multiplexing and chemistry flexibility.

Application spotlight

Identification of novel pathways contributing to immune responses

The Applied Biosystems™ TaqMan™ Human Immune Array Panel is a cost-effective, easy-to-use microfluidic card for quantitative gene expression analysis of targets known to have implications for immune responses. The targets on the TaqMan Human Immune Array Panel include genes that encode cytokines, chemokines, growth factors, immune regulators, apoptosis markers, ischemia markers, tissue-specific markers, and others that include classic endogenous markers. The array is cost-effective, convenient, and easy to use without requiring expensive robotics. It enables reproducible and consistent results across samples, studies, and labs—by providing the same data quality from card to card and lot to lot—even with different operators. Hundreds of customizable and predefined TaqMan Array microfluidic cards are available with preloaded Applied Biosystems™ TaqMan™ gene expression or microRNA assays in an easy-to-use format.



With the QuantStudio 12K Flex system and OpenArray technology, a single user can generate from 1 to over 12,000 data points in a single run with minimal hands-on time.

I need maximum productivity

Harness the power of high-throughput technology for maximum productivity with minimum effort

QuantStudio 12K Flex Real-Time PCR System

With this one instrument, your lab can be ready for many types of experiments, from low- to high-throughput sample processing and virtually any PCR application, such as:

- Drug discovery
- Pharmacogenomics
- MicroRNA profiling
- Agriculture molecular testing
- *CFTR* mutation analysis
- Vaginal microbiota testing

Key benefits

Miniaturization at lower cost

Applied Biosystems™ OpenArray™ technology is a broadly applicable nanoliter fluidics platform for low-volume, solution-phase reactions that enables rapid parallel processing with lower reagent and assay costs.

Exceptional throughput

The QuantStudio 12K Flex system can simultaneously run up to four 3,072-reaction OpenArray plates in about 4 hours. Produce up to 110,000 data points in an 8-hour day with the addition of a single Applied Biosystems™ ProFlex™ PCR System.

Outstanding flexibility

Easily switch between five available thermal cycling blocks: OpenArray plate, TaqMan Array card, 384-well, and standard or fast 96-well blocks. Choose and load the thermal cycling block in less than 1 minute and with no tools required.

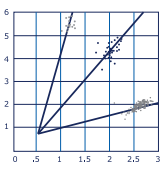
Increased data integrity and quality control—with results you can trust

The integrated SAE module assists you with 21 CFR Part 11 compliance.

Application spotlight

Pharmacogenomics

Pharmacogenomics is the study of drug efficacy based on an individual's unique genomic composition. The QuantStudio 12K Flex system and OpenArray technology provide a simple, cost-effective, and fast screening workflow for the analysis of mutations and copy number variants for drug metabolism enzyme (DME) genes.

1. Load samples onto OpenArray plate.	2. Cycle and image OpenArray plates.	3. Analyze results.
Minimal hands-on time 	Up to 1,100 samples per 8-hour day 	Applied Biosystems™ AlleleTyper™ Software for star allele reports 

Analysis software

We offer Applied Biosystems primary and secondary analysis software for real-time PCR applications

Software and description	QuantStudio 3 system	QuantStudio 5 system	QuantStudio 6 Pro system	QuantStudio 7 Pro system	QuantStudio 12K Flex system
Web browser–based experimental design and single plate analysis	•	•	•	•	•
Desktop experimental design and single plate analysis	•	•	•	•	•
Applied Biosystems™ OpenArray™ Sample Tracker Software to facilitate sample loading onto OpenArray plate					•
Applied Biosystems™ High Resolution Melting (HRM) Software for 96-well and 384-well blocks	•	•	•	•	•
SAE software to support 21 CFR Part 11 workflow		•	•	•	•
Applied Biosystems™ ExpressionSuite™ Software and Relative Quantification (RQ) app for gene expression analysis	•	•	•	•	•
Applied Biosystems™ TaqMan™ Genotyper Software and GT app for genotyping analysis	•	•	•	•	•
Protein Thermal Shift (PTS) Software	•	•	•	•	•
Applied Biosystems™ Diomni™ Enterprise Software for validated workflow support		•		•	

Applied Biosystems qPCR Analysis Modules

Applied Biosystems™ qPCR Analysis Modules are innovative cloud-based data analysis applications that can bring together multiple datasets in one convenient place for enhanced analysis and insights. Experience unprecedented ease of use by working from anywhere with any operating system on any computer connected to the internet.

Get access to the latest secondary data analysis technology with updated, improved, and always-current software modules for gene expression, genotyping, absolute quantitation, HRM, and presence/absence analyses.

Combine hundreds of qPCR experiments into a project and analyze the data within minutes. Simplify your workflow and spend less time on data analysis so you can invest your valuable time publishing results and advancing your research.

- Data accessible with any device
- All experiments integrated into one project
- Minimum information for publication of quantitative real-time PCR experiments (MIQE) guideline support
- Powered by the Amazon Web Services™ platform

Meet the needs of your laboratory today and tomorrow.

For more information, go to **thermofisher.com/abmodules**

Real-time PCR application areas

Real-time PCR is used for sensitive, specific detection and quantification of nucleic acid targets. We have developed powerful assay design algorithms, optimized master mixes, intuitive data analysis software, and flexible instrumentation to help harness the power of qPCR across a rich and diverse set of applications. Discover solutions for your qPCR-based research.

Infectious disease research

See our growing catalog of sensitive, specific real-time PCR probe and primer sets for viruses that affect humans and other areas of infectious disease research.

Food pathogen detection

Detect multiple bacteria in the same run, including *Salmonella, Campylobacter*, *E. coli* O157:H7, and *Listeria monocytogenes*.

Waterborne pathogen detection

Detect and monitor waterborne pathogens in recreational and drinking water supplies.

Pharmaceutical analytics

Detect mycoplasmas, viruses, and residual host cell contamination for pharmaceutical, cosmetics, and personal care product manufacturing.

Stem cell research

We offer solutions for analyzing stem cells, determining stemness, and studying gene regulation and translation in stem cells.

Pharmacogenomics

We offer predesigned Applied Biosystems™ TaqMan™ Assays for more than 175 absorption, distribution, metabolism, and excretion (ADME) and cytochrome P-450 (*CYP*) targets, including >95% of ADME core markers and a warfarin metabolism panel.

Oncology and genetic disease research

Enabling robust, reliable detection and quantitation of markers for cancers and genetic diseases.

Plant sciences and agricultural biotechnology

We offer instruments, reagents, and kits designed for plant researchers that enable remarkable agricultural discoveries—from improved crops that feed more people to sustainable biofuels.

Next-generation sequencing (NGS)

Quantifies and amplifies DNA sequences, allowing sufficient material for sequencing and enabling accurate measurement of gene expression levels.

Qualified solutions

We have a growing menu of new and valuable content for you to use on your high-throughput real-time PCR systems, including pharmacogenomics, vaginal microbiota, and *CFTR* mutation analysis.

TaqMan probes and SYBR Green chemistry for real-time PCR

	Applied Biosystems™ TaqMan™ Fast Advanced Master Mix for qPCR	Applied Biosystems™ TaqMan™ Fast Virus 1-Step Master Mix for qPCR	Applied Biosystems™ PowerTrack™ SYBR™ Green Master Mix for qPCR
Overview	Benchtop-stable master mix with robust performance in single-target or duplex reactions	Inhibitor-tolerant master mix for sensitive RNA and DNA detection and multiplexing for up to four targets	SYBR Green dye–based master mix for high specificity with visual indicators to assist reaction setup
Detection chemistry	Probes, two-step qPCR	Probes, one-step reverse transcription qPCR (RT-qPCR)	SYBR Green dye, two-step qPCR
Concentration	2X	4X	2X
Instrument compatibility	Any qPCR instrument from any manufacturer		
Key applications*	• Gene expression analysis • miRNA analysis • Virus detection	• Gene expression analysis • Virus and pathogen detection	• Gene expression analysis • Mycoplasma detection
Input material	DNA, including cDNA	RNA or DNA	DNA, including cDNA
Multiplexing and passive reference dye	With ROX: up to two targets	With ROX: up to three targets No ROX: up to four targets	With ROX: one target
Carryover contamination control	With UNG No UNG	No UNG	With UNG
Sample tracking dye	No	No	Yes (optional)
Reaction benchtop stability	72 hr	1 hr	8 hr**
Cycling mode/run time	**Fast:** ~40 min **Standard:** ~50 min	**Fast:** ~60 min **Standard:** ~90 min	**Fast:** ~30 min **Standard:** ~60 min
	Order now	Order now	Order now

* For genotyping applications, explore our **master mixes for genetic variation analysis**.
** For workflows that require up to 72 hours of benchtop stability, use **Applied Biosystems™ PowerUp™ SYBR™ Green Master Mix.**

TaqMan Assays: precision and reliability for your PCR needs

TaqMan Assays have transformed the field of qPCR by providing outstanding sensitivity and specificity in nucleic acid detection. Designed for various applications, these assays help ensure accurate and reproducible results, making them indispensable for researchers worldwide. With a vast selection of over 20 million predesigned assays, TaqMan Assays support diverse research areas including gene expression, microRNA analysis, single-nucleotide polymorphism (SNP) genotyping, and mutation detection.

Key features

High sensitivity and specificity: Leveraging the 5′ nuclease activity of Applied Biosystems™ *Taq* polymerase, TaqMan Assays offer precise quantification of target sequences, enabling reliable data.

Customizable Solutions: Design your own Applied Biosystems™ TaqMan™ probe and primer sets or choose from predesigned assays to fit your specific research needs.

Wide range of applications: TaqMan Assays are suitable for gene expression analysis (>2.8 million assays for over 32 species), microRNA analysis (30 thousand assays), genetic variation analysis (>17 million assays), copy number variation (1.8 million assays), and mutation detection (900 assays).

Multiplexing capabilities: Utilize Applied Biosystems™ TaqMan™ QSY2 (Cy5 and Cy5.5) probes to detect multiple targets in a single reaction, enhancing experimental efficiency and minimizing pipetting errors.

Robust performance: TaqMan Assays are backed by more than 296,000 extensive citations due to their consistent and reproducible results.

Whether you are conducting gene expression studies, investigating genetic variations, or performing mutation analysis, TaqMan Assays provide the tools you need to achieve accurate and reliable results. Explore the power of TaqMan Assays and unlock new possibilities in your research.

Learn more about **how to order predesigned assays**.

Ordering information

Product	Cat. No.
QuantStudio 3 Real-Time PCR System configurations	
QuantStudio 3 Real-Time PCR System, 96-well, 0.2 mL*	A28137
QuantStudio 3 Real-Time PCR System, 96-well, 0.1 mL*	A28136
QuantStudio 5 Real-Time PCR System configurations	
QuantStudio 5 Real-Time PCR System, 96-well, 0.2 mL*	A28139
QuantStudio 5 Real-Time PCR System, 96-well, 0.1 mL*	A28138
QuantStudio 5 Real-Time PCR System, 384-well*	A28140
QuantStudio 6 Pro Real-Time PCR System configurations	
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.1 mL	A43160
QuantStudio 6 Pro Real-Time PCR System, 384-well	A43161
QuantStudio 6 Pro Real-Time PCR System, 384-well, laptop	A43168
QuantStudio 6 Pro Real-Time PCR System, 384-well, desktop	A43182
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.2 mL	A43159
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.1 mL	A43160
QuantStudio 6 Pro Real-Time PCR System, 96-well, 0.1 mL, desktop	A43181
QuantStudio 6 Pro Real-Time PCR System, AB Assurance extended warranty, SmartStart, 96-well, 0.2 mL	A44556
QuantStudio Pro Block Upgrade Kit, 96-well, 0.1 mL	A45955
QuantStudio Pro Block Upgrade Kit, 96-well, 0.2 mL	A45953
QuantStudio Pro Block Upgrade Kit, 384-well	A45954
QuantStudio 7 Pro Real-Time PCR System configurations	
QuantStudio 7 Pro Real-Time PCR System, 384-well, laptop	A43171
QuantStudio 7 Pro Real-Time PCR System, 384-well, desktop	A43185
QuantStudio 7 Pro Real-Time PCR System, 96-well, 0.1 mL, desktop	A43184
QuantStudio 7 Pro Real-Time PCR System, 384-well	A43164
QuantStudio 7 Pro Real-Time PCR System, 96-well, 0.2 mL	A43162
QuantStudio 7 Pro Real-Time PCR System, 96-well, 0.1 mL	A43163
QuantStudio 7 Pro Real-Time PCR System, Extended Warranty Package, 96-well, 0.2 mL	A44557
QuantStudio Pro Block Upgrade Kit, 96-well, 0.1 mL	A45955
QuantStudio Pro Block Upgrade Kit, 96-well, 0.2 mL	A45953
QuantStudio Pro Block Upgrade Kit, 384-well	A45954
QuantStudio Pro Block Upgrade Kit, TaqMan Array Card	A45956

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

Description	Cat. No.
QuantStudio 12K Flex System configurations	
QuantStudio 12K Flex Real-Time PCR System with AccuFill, OpenArray block, laptop	4471086
QuantStudio 12K Flex Real-Time PCR System, OpenArray block, laptop	4472379
QuantStudio 12K Flex Real-Time PCR System, 96-well block, laptop	4471050
QuantStudio 12K Flex Real-Time PCR System, Fast 96-well block, laptop	4471080
QuantStudio 12K Flex Real-Time PCR System, 384-well, laptop	4471081
QuantStudio 12K Flex Real-Time PCR System, Array Card block, laptop	4471085
QuantStudio 12K Flex Real-Time PCR System, OpenArray block, AccuFill System	4471090
QuantStudio 12K Flex Real-Time PCR System, OpenArray block, desktop	4472380
ViiA 7, QuantStudio 6 Flex, QuantStudio 7 Flex, and QuantStudio 12K Flex System Block Upgrade Kit, 96-well	4453543
ViiA 7, QuantStudio 6 Flex, QuantStudio 7 Flex, and QuantStudio 12K Flex System Block Upgrade Kit, Fast, 96-well	4453544
ViiA 7, QuantStudio 6 Flex, QuantStudio 7 Flex, and QuantStudio 12K Flex System Block Upgrade Kit, 384-well	4453545
ViiA 7 System Block Upgrade Kit, TaqMan Array	4453546
QuantStudio 12K Flex OpenArray Block Upgrade Kit (with AccuFill System)	4471067
QuantStudio 12K Flex AccuFill System	4471021
ProFlex PCR System, 2 x Flat	4484078

Support at every step

Online instrument management

Sign in to your **thermofisher.com account** to access a free online instrument management tool* that enables faster responses to requests for service or service quotes, and instant connection to key instrument and service information.

* Instruments and Services Portal not available in all regions.

Comprehensive instrument warranty

Our factory-trained and certified field service engineers (FSEs) are focused on delivering the highest quality workmanship. During the warranty period, all repairs, including engineer time and travel, are covered. Extend the life of your instrument and help keep it running at peak performance with annual maintenance service.

Flexible service plans

Choose from a variety of service options that can help you balance your budget, productivity, uptime, and regulatory requirements. Plans start with the most basic repair models and scale to premium offerings that include advanced support and compliance services. On-site service plans are optimal for labs that have time-sensitive work and need to get their instruments back online quickly. These plans include prompt response times in most regions, scheduled maintenance, and automatic software updates. The AB Repair Center (RC) Plan is a cost-effective choice for customers who can allow their instruments to be sent away for repair. This plan provides loaner instruments so that customers can maintain productivity while their instruments are being repaired.

Computer system validation services**

Laboratories operating under GAMP™ 5, 21 CFR Part 11, and Annex 11 SAE compliance require validation of instrument computer systems to help ensure accurate, reliable, and consistent records. Our computer system validation (CSV) consulting services provide flexible and comprehensive, audit-style documentation packages that help you reduce risk and comply with regulations and standards. The services are managed and delivered by an experienced compliance specialist and help ensure that electronic records are generated, maintained, and archived in an accurate, reliable, and secure manner.

** Limited to QuantStudio 6 Pro, QuantStudio 7 Pro, and QuantStudio 12K Flex systems.

Professional services

Our professional services are designed to help you balance business and regulatory requirements—from risk assessment, hardware/software qualification, full system validation, and LIMS interfacing services to data storage and backup solutions. We partner with you to help mitigate regulatory risks, get your processes up and running, and help ensure data integrity across your lab.

Training courses

Our application and instrument training programs are led by scientists who aim to enhance your workday through experimental design best practices, workflow training, and instrument troubleshooting. We can also provide a live demonstration and comparison of data between systems to help you transition from your existing Applied Biosystems™ qPCR instrument. Hands-on classes are available at our Thermo Fisher Scientific training centers or in your lab.

Technical support

If you have questions about product selection or use, assay or experimental design, data analysis, or troubleshooting, contact our team of technical support scientists or access our online product and application support tools.

How to reach us

To find your local support or technical support team, go to **thermofisher.com/contactus**. For product FAQs, protocols, training courses, and webinars, go to **thermofisher.com/technicalresources**

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Service plans at a glance

Applied Biosystems™ service plans

	Repair Center service plans*				On-site service plans	
	AB Maintenance Plus plan	AB Assurance™ plan	AB Platinum™ plan	AB Ascend™ plan	Rapid Exchange plan	ABRC Support Plus plan
Response time	3 business days*	2 business days*	Next business day**	2 business days*	Replacement shipped in 1 business day**	Loaner instrument shipped in 1 business day‡
Planned maintenance	✓	✓	✓	✓	Available as add-on	Available as add-on
Parts, labor, and travel	10% discount	✓	✓	✓	✓	✓
Digital remote support	✓	✓	✓	✓	✓	✓
Qualification service	Available as add-on	Available as add-on	✓	✓	Available as add-on	Available as add-on
Field application scientist (FAS) consultation	Available as add-on	Available as add-on	✓	✓	–	–
Technical support (Mon–Fri, standard business hours)	✓	✓	24/7/365†	24/5†	✓	✓
98% uptime guarantee§	–	–	✓	–	–	–

* After receipt of purchase order.

** Availability limited in some geographic areas.

† Outside standard business hours, a connection will be made with our remote technical support team.

‡ Your instrument repaired and returned in ~3 weeks. Service plan without loan instrument also available.

§ Terms and conditions apply. For complete details go to **AB Platinum Plan Terms and Conditions**.

Learn more at **thermofisher.com/studioofthefuture**

applied biosystems

The QuantStudio 3, 5, 6 Pro, 7 Pro, and 12K Flex systems, as well as TaqMan Assays, array cards, panels, probes, and master mixes are for Research Use Only. Not for use in diagnostic procedures.