

QuantStudio 5 Dx Real-Time PCR System

- Simple yet powerful software to guide you through test development and IVD modes with ease
- Affordable and accessible, with low cost of ownership
- An enhanced user experience with the intuitive software that you've come to expect from smart devices
- Performance you can trust, built on 25 years of qPCR instrument experience

Introduction

The Applied Biosystems™ QuantStudio™ 5 Dx Real-Time PCR System is designed with the clinic in mind—delivering a modern, interactive diagnostic instrument with the flexibility of software designed for both IVD use and test development.

QuantStudio 5 Dx Real-Time PCR System

The QuantStudio 5 Dx Real-Time PCR System is the latest addition to our extensive QuantStudio family of diagnostic instruments—complete with the reliability, sensitivity, and accuracy you've come to expect from Applied Biosystems™ instruments. The system features an intuitive, simple-to-use interface, allowing users of any experience level to operate the instrument with ease. With a small footprint and affordable price point, the QuantStudio 5 Dx system is well suited for any clinical laboratory.



Powerful software designed for the clinic

The power of the QuantStudio 5 Dx system is in its software—with core functionalities designed to seamlessly guide you through every step of the test development* and diagnostic workflows.

- **Diagnose or develop, the choice is yours**—multi-modal software enables you to operate the instrument in test development (DEV)* and *in vitro* diagnostic (IVD) modes
- **Enhanced security you need**—including auditing and e-signature functionalities that enable you to comply with regulations
- **Software to guide you every step of the way**—allows you to set up a run, lay out assays, control the instrument, and conduct plate analysis within a single, easy-to-use software
- **IVD test menu with peace of mind**—allows only authorized IVD tests to be run through IVD mode, helping to reduce the risk of unauthorized use and accidental or intentional misuse

Features that help you comply with requirements of accrediting bodies

Maintenance and calibration reports	Records are updated automatically with maintenance and calibration events and can be printed on demand, documenting that the system has been maintained and calibrated to vendor specifications.
Reagent tracking	Stores and archives information about reagents used with each test, including lot number and expiration date with each run. Archived files can be retrieved when required to track samples that were tested with a given set of reagents.
Sample tracking	Captures critical sample data that can be customized to fit the laboratory's needs. Tracks information such as name, accession number, and sample type. Enables laboratories to more easily track samples associated with a particular plate, set of reagents, run date and time, and data files.
E-signatures history	Security, auditing, and e-signature software records test events, actions taken, dates, user names, user roles, and activity performed for documentation and archiving purposes.
Experimental results	Report output records details for documentation, archival, and review-at-a-glance needs, including experiment name, barcode, file name, time stamps (creation, run start, run finish, duration, and modifications), instrument name, serial number, experiment type, results summary, plate layout image, standard curves, results table, and QC summary.

Technical specifications

Reaction volume	96-well, 0.2 mL block: 10–100 µL
Footprint (W x D x H)	27 x 50 x 40 cm
Weight	27 kg
Excitation source	Bright-white LED
Optical detection	6 decoupled filters, CMOS camera
Excitation/detection range	450–680 nm/500–730 nm
Temperature range	4–99.9°C
Max block ramp rate	6.5°C/sec
Average sample ramp rate	3.66°C/sec
Temperature uniformity	0.5°C
Temperature accuracy	0.25°C
Heating and cooling method	Peltier
Independent temperature zones	6 VeriFlex™ zones (5°C zone to zone)
Chemistries	Both fast and standard
Run times	<30 minutes (Fast mode)
Validated reaction volumes	10–100 µL
Factory-calibrated dyes	FAM™, SYBR™, VIC™, ABY™, NED™, TAMRA™, JUN™, ROX™, Mustang Purple™, and Cy®5 dyes
Multiplex	5-plex with 1 passive reference; 6-plex with no passive reference
Sensitivity	1 copy; detect differences as small as 1.5-fold in target quantities in singleplex
Dynamic range	9 logs of linear dynamic range
Security and auditing features	Integrated tools to assist with 21 CFR Part 11 compliance

* Test Development mode is for research use only.

Find out more at thermofisher.com/quantstudio5dx

ThermoFisher
SCIENTIFIC

The QuantStudio 5 Dx Real-Time PCR System is coming soon. Product not yet CE-marked.
Cannot be sold or put into service. Check this website for future updates.

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