



# QIAquant<sup>®</sup> real-time cyclers and QuantiNova<sup>®</sup> kits – see qPCR in a new light

Real-time PCR experiments are complex enough. You deserve easy-going chemistry with an intuitive top-notch cycler. Focus on the assay, QIAGEN has your back.

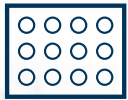
Discover how QIAquant makes qPCR easier and faster, saving you time and peace of mind.



Fast cycling time, down to under  
30 minutes



Reliable results even in challenging  
applications



Compatible reactions in 96-  
and 384-well plates



For both SYBR Green and probe  
base assays, up to 5plex



Sample to Insight

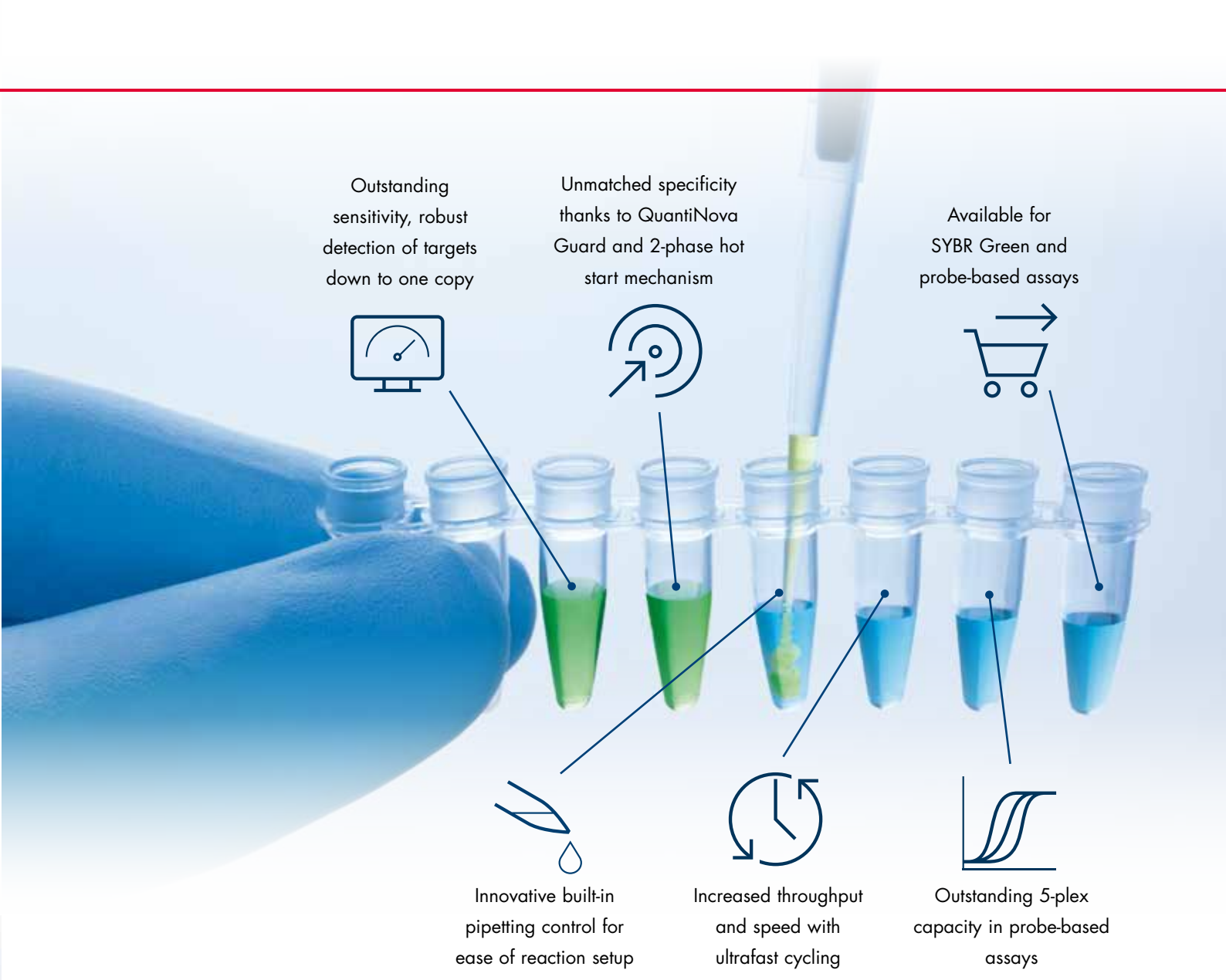
# The QIAquant is an all-round system designed for performance

The QIAquant qPCR instruments deliver on the fundamental expectation to combine high performance optical detection of qPCR products with a high performance thermal block. The result is an all-round versatile system for quantitative PCR applications such as gene expression analyses, genotyping and the detection of pathogens.

The QIAquant comes in 3 configurations to match different requirements of multiplexing capacity, throughput and budget.

	<b>QIAquant 96 2plex</b>	<b>QIAquant 96 5plex</b>	<b>QIAquant 384 5plex</b>
Multiplex capacity	2 targets	5 targets	5 targets
Sample capacity	96 samples	96 samples	384 samples
Control	Touchscreen and/or PC	Touchscreen and/or PC	PC
Gradient	Yes	Yes	Yes





Outstanding sensitivity, robust detection of targets down to one copy

Unmatched specificity thanks to QuantiNova Guard and 2-phase hot start mechanism

Available for SYBR Green and probe-based assays

Innovative built-in pipetting control for ease of reaction setup

Increased throughput and speed with ultrafast cycling

Outstanding 5-plex capacity in probe-based assays

## A step closer to error-proof and optimization-free qPCR

The unique combination of QIAGEN's proprietary buffer technology along with the new QuantiNova DNA Polymerase, QuantiNova Antibody, and QuantiNova Guard, ensures real-time PCR success at the first attempt, without the need for costly and time-consuming optimization, even with challenging real-time PCR assays. Its great resistance against inhibitors, its sensitivity, specificity and in-built pipetting control brings simplicity and serenity to your qPCR workflow.

The high sensitivity of the QuantiNova Kit results in accurate and robust detection of even a single target copy including co-quantification of targets having widely differing abundance in a single tube.

QuantiNova Multiplex PCR Kits enable fast and reliable quantification of up to 5 cDNA or gDNA targets in a single tube by multiplex, real-time PCR or two-step RT-PCR.

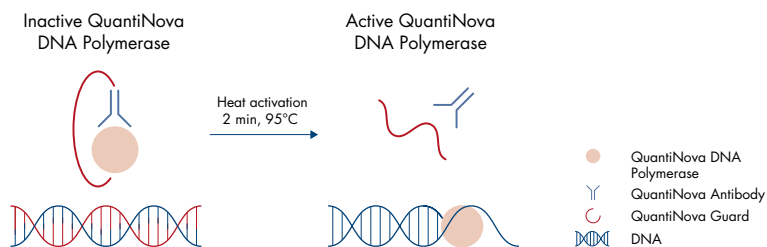
Featuring enhanced specificity, sensitivity, speed, and process safety, the QuantiNova SYBR Green PCR Kit and QuantiNova SYBR Green RT-PCR Kit set new standards in SYBR Green-based qPCR.

# QIAGEN is committed to quality for your quantitative PCR

QIAGEN has your back covered with QuantiNova and the QIAquant instruments. You will love the performance and robustness of your qPCR assays. QuantiNova and the QIAquant raise your qPCR workflow to the next level and help see it in a new light.



Putting the gold in gold standard, the QIAquant 96 sample block is made of gold-coated silver to provide outstanding thermal conductivity, uniformity as well as fast heating and cooling ramping rates.



QuantiNova Guard and the 2-phase hot start mechanism make your target more specific than ever by double-blocking the polymerase and thus preventing nonspecific amplifications.

QIAGEN is committed to accelerate your research and provide your lab with high quality qPCR solutions meeting all your needs. Save time, money and peace of mind by choosing optimized QuantiNova chemistries and a QIAquant cyler for fast, easy and powerful analysis of your qPCR experiments.

Contact QIAGEN customer solution managers for evaluation of QIAGEN PCR products and hear about our special deal opportunities.

Get a quote  
for a bundle  
at special  
price

Trademarks: QIAGEN®, Sample to Insight®, QIAquant®, QIAxcel®, QuantiNova® (QIAGEN Group). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

PROM-15717-001 1120433 02/2020 © 2020 QIAGEN, all rights reserved.

Ordering [www.qiagen.com/shop](http://www.qiagen.com/shop) | Technical Support [support.qiagen.com](http://support.qiagen.com) | Website [www.qiagen.com](http://www.qiagen.com)

# QIAquant 96

## Technical Specifications

Name	QIAquant 96 (2plex and 5plex)	QIAquant 384 5plex
Catalog number	QIAquant 96 2plex, 115V : 9003000 QIAquant 96 2plex, 230V : 9003001 QIAquant 96 5plex, 115V : 9003010 QIAquant 96 5plex, 230V : 9003011	QIAquant 384 5plex, 115V : 9003020 QIAquant 384 5plex, 230V : 9003021
Block format	96 wells	384 wells
Sample volume	5 – 100 µl	2–30 µl (5 to 20 µl recommended)
Lid temperature	30 – 110 °C	30–110°C
Temperature gradient	40°C	25°C
Max. heating rate*	max. 8°C/s (depending on consumables used)	max. 4°C/s, Ø 3.8°C/s (depending on consumables used)
Max. cooling rate*	max. 6 °C/s (depending on consumables used)	max. 2°C/s, Ø 1.7°C/s (depending on consumables used)
Heating rate adjustment	min. 0.1 °C/s	min. 0.1°C/s
Temperature uniformity (15 s after starting the clock)	±0.15 °C at 55 °C ±0.25 °C at 72 °C ±0.50 °C at 95 °C	±0.15°C at 55°C ±0.25°C at 72°C ±0.50°C at 95°C
Temperature range	3 °C – 99 °C	3–99°C
Control accuracy	± 0.1 °C	±0.1°C
Temperature increments	min. 0.1 °C/cycle	min. 0.1°C/cycle
Time increments	min. 1 s/cycle	min. 1 s/cycle
Heated lid	Manual opening mechanism, automatic contact pressure	Manual opening mechanism, automatic contact pressure
Heated lid contact pressure	30 kg, automated	comply with 30 kg, automated
Dimensions (H x W x D)	59 cm x 27.5 cm x 27.5 cm 70 cm x 27.5 cm x 50 cm when opened	59 x 27.5 x 27.5 cm 70 x 27.5 x 50 cm when opened
Mass	30 kg	30 kg
Noise level	45 dB	45 dB
Energy supply Operating voltage Line frequency	115 V, 230 V 50 – 60 Hz	115 V, 230 V 50 – 60 Hz
Power consumption (max.)	max. 850 W	max. 850 W
Supported plastic products	96-well micro titer plates with optical film 8-well strips 0.2 ml with optical lids 0.2 ml individual vessels with optical lids	384-well PCR plates with optical sealing film
Sensitivity	1 nmol/l FAM at 30µl sample volume in a 96-well PCR plate	1 nmol/l FAM at 30 µl sample volume in a 384-well PCR plate
Measuring time	96-well plate (single measurement, 6 colors) approximately 6 s	384-well PCR plate (single measurement, 6 colors) approx. 6 s
Measuring range	±130 000 (±17 bit)	±130 000 (±17 bit)
Dynamic range	10 log stages	10 log stages
Light source	Four high-intensity LEDs (blue, green, white, red)	Four high-intensity LEDs (blue, green, white, red)
Detector	Photo Multiplier (PMT)	Photo Multiplier (PMT)

Name	QIAquant 96 (2plex and 5plex)	QIAquant 384 5plex
Color filter modules	Color modules for all frequently used real-time PCR dyes Color module 1 (465 nm/524 nm) Color module 2 (510 nm/565 nm) Color module 4 (560 nm/610 nm) (on QIAquant 96 5plex and QIAquant 384 5plex only) Color module 5 (625 nm/680 nm) (on QIAquant 96 5plex and QIAquant 384 5plex only) Color module 6 (625 nm/710 nm) (on QIAquant 96 5plex and QIAquant 384 5plex only)	
<b>Software and touchscreen</b>		
Analysis methods	Absolute quantification, relative quantification, $\Delta\Delta C_t$ method, allelic discrimination, efficiency calculation, DNA melting curves, POS/NEG analysis in the end point	
Export functions	Excel, CSV, LIMS, GenEx, qBase	
Data connection	USB	
Control of the instrument	Desktop software and/or with built-in touchscreen	Desktop software
PC software requirements	Minimum Intel i3, 2 GB RAM	Minimum Intel i3, 2 GB RAM
Operating system	Win 7/Win 8/Win 10	Win 7/Win 8/Win 10