



QIAcuity[®] Digital PCR System

Fast. Scalable. Reliable.



5 reasons why

- Fixed partitions prevent variation in size and coalescence, maximizing consistency
- Sealed nanoplates eliminate the risk of contamination
- Simultaneous reading of all partitions/well allows quicker time-to-result
- qPCR-like plates provide a more familiar workflow, improving ease of use
- Plates are amenable to front-end automation (e.g., on the QIAgility), minimizing hands-on steps

A simple and rapid workflow

The nanoplate-based QIAcuity Digital PCR System provides a qPCR-like workflow, in which sample preparation includes the transfer of diluted samples and the addition of master mix, probes and primers to an 8-, 24- or 96-well nanoplate. The system then

automates a fully integrated dPCR workflow – partitioning, thermocycling and imaging – enabling walk-away operation and delivering results in about two hours.

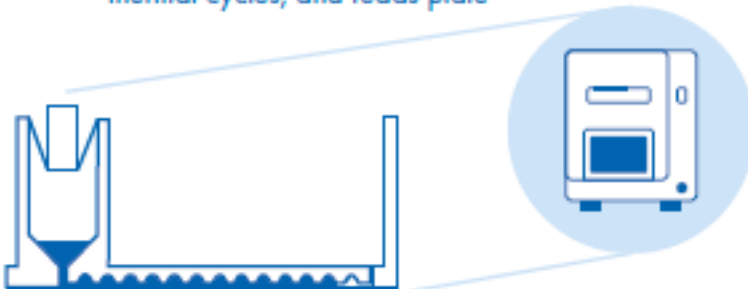
1 Pipette reaction mixtures to dPCR plate



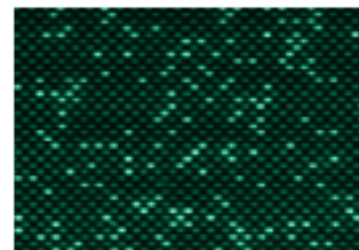
2 Apply rubber plate seal to dPCR plate and place in instrument



3 Instrument automatically partitions, thermal cycles, and reads plate



4 Analyze results



➔ Explore a virtual workflow demo: www.qiagen.com/qiacuity-demo

QIAcuity Digital PCR System

Features and benefits

With a fully integrated design, walk-away automation, ease of use, advanced multiplexing, scalable instrument and flexible plate configuration for high throughput and highly sensitive detection, the QIAcuity system can displace qPCR, ddPCR and existing dPCR systems as the method of choice for quantification of nucleic acid targets.

- **Scalable design**

The QIAcuity system comes in scalable instrument configurations with a single thermal cycler and capacity to run up to 4 plates or a dual thermal cycler and capacity to run up to 8 plates.

- **The highest throughput digital PCR system ever**

An 8-plate capacity allows up to 1248 samples to be analyzed in a single workday using a 96-well nanoplate.

- **Ultra-high multiplexing**

Up to 6 channels (including one reference channel) can be configured for multiplex quantification of up to 5 target DNA or RNA molecules in a given assay, saving time and reagents.

- **Fully automated digital PCR**

The QIAcuity system integrates reaction partitioning, thermal cycling and imaging into a single fully automated instrument that takes users from sample to result of up to 96 samples in 2 hours and up to 768 samples in 5 hours.

- **Simplified transition from qPCR**

The QIAcuity system is compatible with qPCR detection chemistries such as hydrolysis probes and EvaGreen dye, simplifying the transition from qPCR assays.

