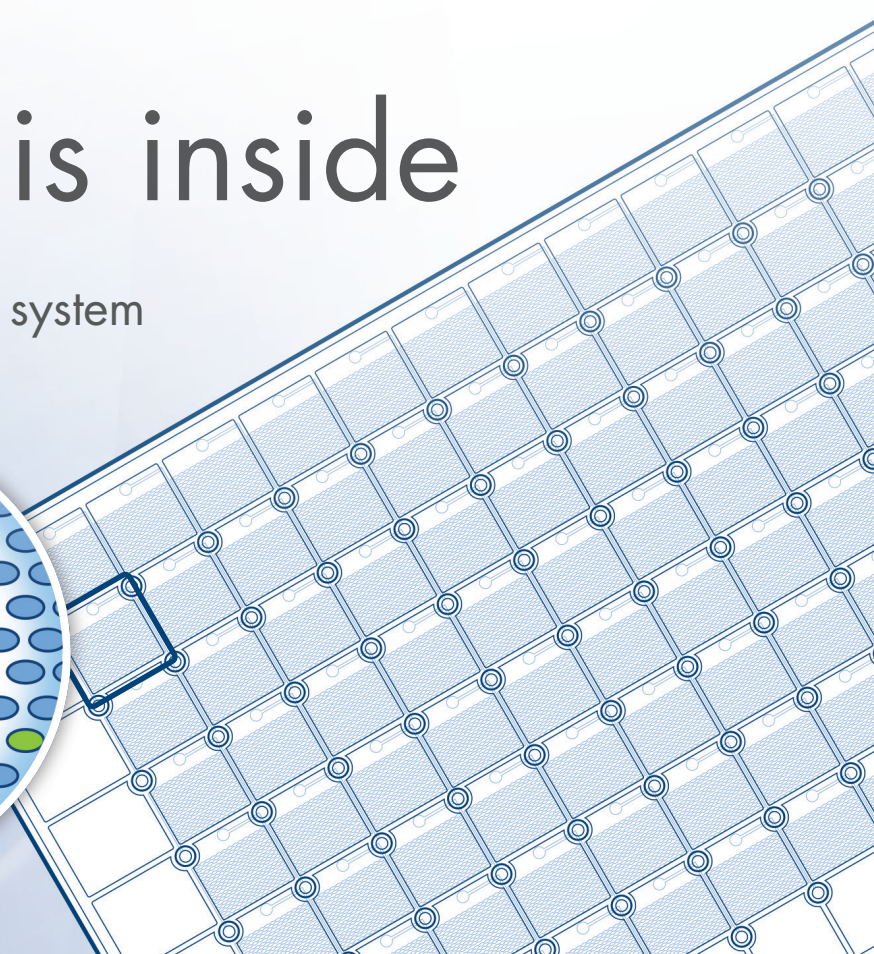
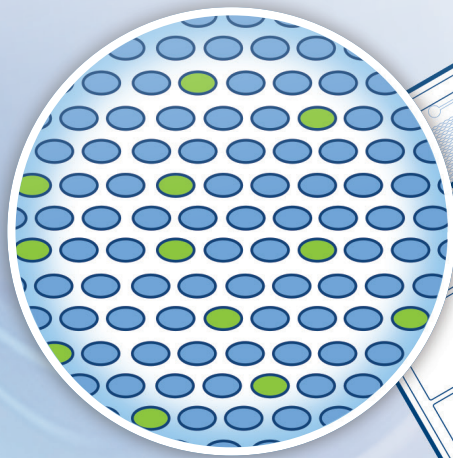
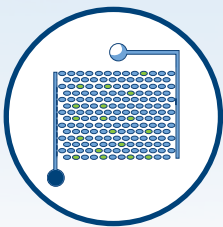


The magic is inside

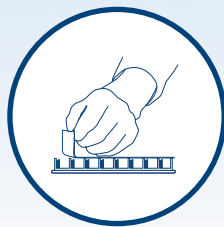
Nanoplate-based digital PCR system



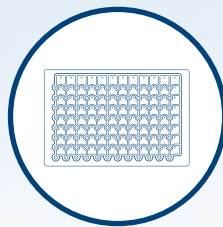
Why plate?



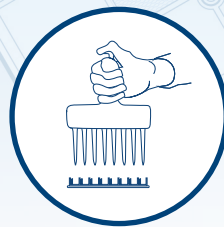
Fixed partitions prevent variation in size and coalescence as seen in droplets



Sealed nanoplates eliminate risk of contamination



Simultaneous reading of all partitions/well allows quicker time-to-result



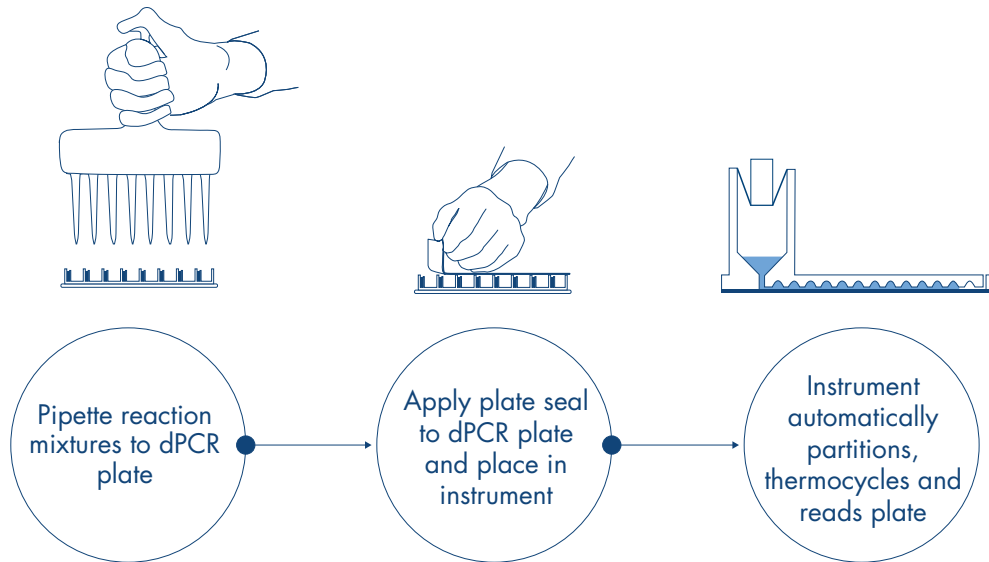
User-friendly, PCR-like plates provide a more familiar workflow



Plates are amenable to front-end automation

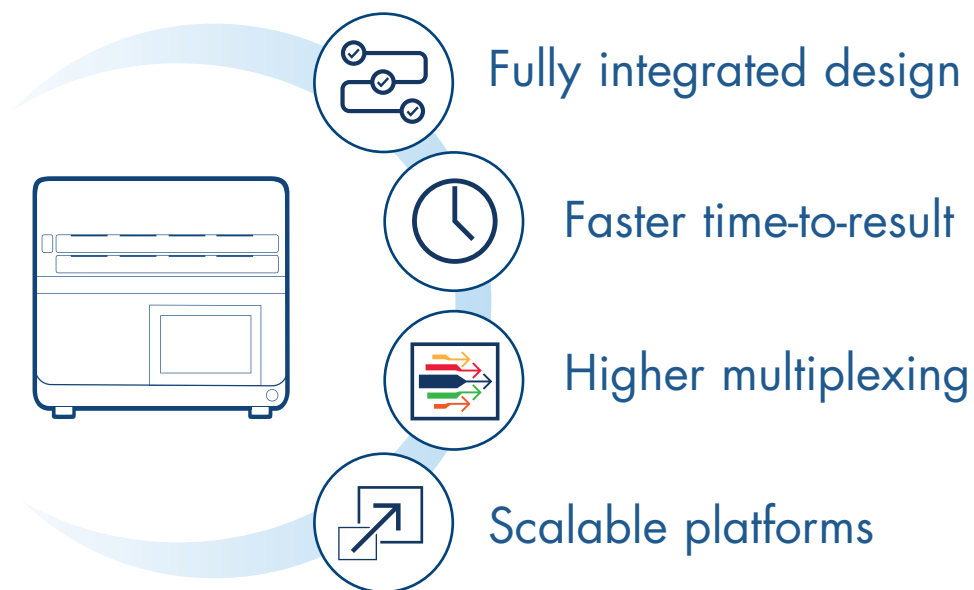
A rapid and simplified plate-based workflow

The nanoplate-based digital PCR system provides a more familiar workflow, just like in qPCR experiments. The system integrates partitioning, thermocycling, and imaging into a single fully automated instrument that takes users from sample to result in under two hours.



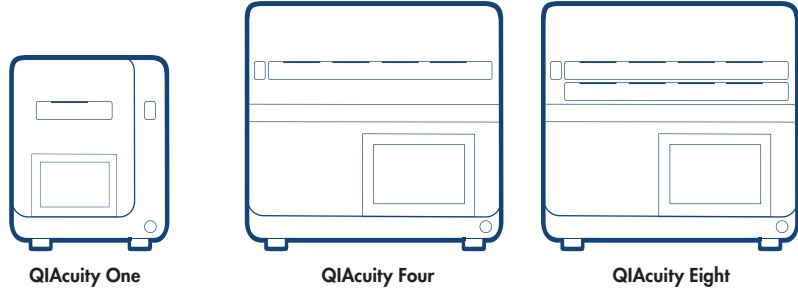
Features and benefits

With flexible instrument, plate configurations, and up to five detection channels, the nanoplate-based digital PCR system is capable of displacing qPCR as the method of choice for high-throughput quantification of nucleic acid targets.



The QIAcuity instruments and nanoplates

A fully integrated digital PCR solution for absolute quantification



	QIAcuity One	QIAcuity Four	QIAcuity Eight
Plates processed	1	4	8
Detection channels (multiplexing)	2 or 5	5	5
Thermocycler(s)	1	1	2
Time to result	Under 2 h	First plate under 2 h Every ~60 min a following plate	First plate under 2 h Every ~30 min a following plate
Throughput (samples processed in a work day)	Up to 384 (96-well) Up to 96 (24-well)	Up to 672 (96-well) Up to 168 (24-well)	Up to 1248 (96-well) Up to 312 (24-well)

The system offers distinct plate types with partitions designed to accommodate flexible throughput and sensitivity requirements.

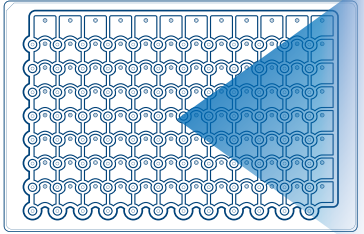


Plate type	Samples/plate	Partitions/well	Input volume/well	Key applications
Nanoplate 26K 24-well	24	approx. 26,000	40 µl	Rare mutation detection, liquid biopsy, and more
Nanoplate 8.5K 24-well	24	approx. 8,500	12 µl	CNV detection, NGS library quantification, and more
Nanoplate 8.5K 96-well	96	approx. 8,500	12 µl	CNV detection, NGS library quantification, and more

Applications



Rare mutation detection



Copy number variation



Gene expression,
miRNA detection



Pathogen detection



GMO detection



NGS validation



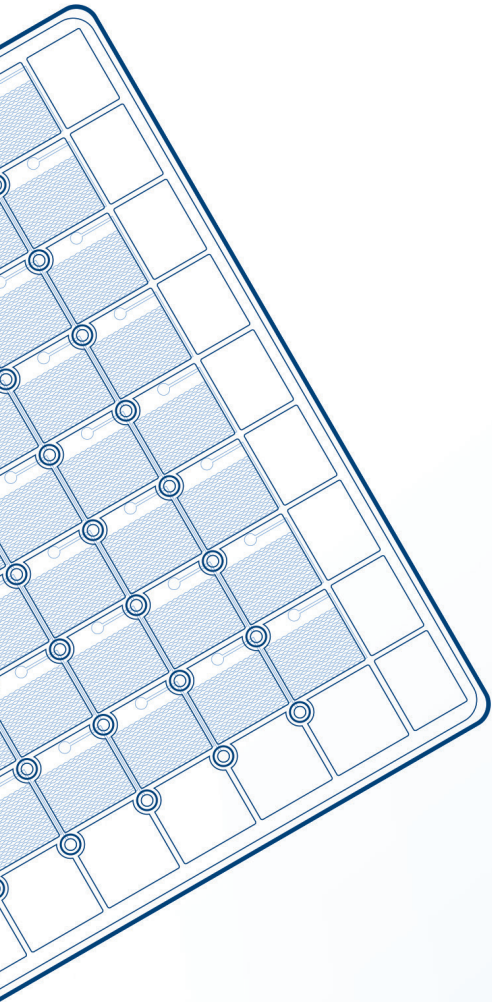
Microbiome analysis



Characterization of reference
standards



Liquid biopsy



Are you interested in learning more about our digital PCR system and applications?
Watch the recordings on-demand.



Visit [qiagen.com/dPCRwebinars](https://www.qiagen.com/dPCRwebinars)

Visit www.qiagen.com/dPCR for more information.

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