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The Next Generation Evolution of Digital PCR, designed for your work.

DQ24 All-in-one Automation Digital PCR System



Powerful yet Simple

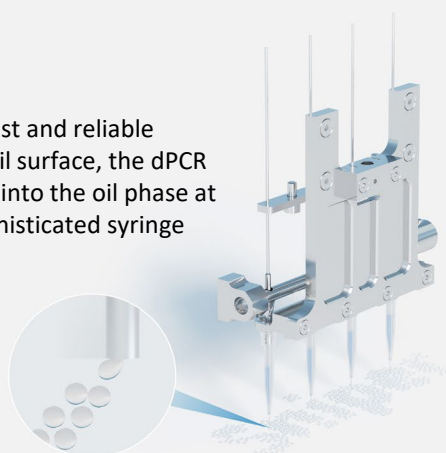
The DQ24 digital PCR system utilizes Sniper Medical Tech.'s patented VibroJet™ technology to generate droplets without reliance on a microfluidic chip. It seamlessly integrates typical dPCR steps of droplet generation, PCR amplification and droplet analysis into an all-in-one and easy-to-use system, offering walk-away dPCR operation and powerful multiplexing capability, changing the way you think of the digital PCR workflow.

Benefits

The DQ24 digital PCR system is design to offers,

- **All-in-one and automated dPCR workflow.** In addition to integrating the typical dPCR workflow, the system can automatically load sample directly from an 8-strip tube, providing the similar operational feeling as qPCR.
- **Easy to use.** Fast onboarding powered by intuitive and rapid run setup on a large touch screen within 1 minute, eliminating droplet transferring and allowing you finish experiment with 1.5-2 hours in a stand-alone run model.
- **3-6 detection channels.** Up to 6 color channels allow for multiple targets to be detected in a single reaction

The VibroJet™ technology is an efficient, fast and reliable method for droplet generation. Below the oil surface, the dPCR reaction mixture flows from a micro-needle into the oil phase at a constant speed under the control of a sophisticated syringe pump while the micro-needle vibrates reciprocally at a constant frequency. Reaction mixture is steadily split into tens of thousands of droplets of uniform volume and distributed in the oil phase.



Benefits

- **Flexible throughput.** No microfluidic chip is required, significantly reducing the running cost. The throughput of test is flexible, do your test anytime.
- **compact and small footprint.** DQ 24 enables fully automated dPCR workflow while has small size and footprint to save the space in your lab.
- **Regulatory compliant.** DQ24 onboard Sight software Regulatory Edition enables FDA 21 CFR Part 11 compliance, allowing audit trails for regulatory requirements.

Specifications

Dimensions (L×W×H)	495×500×560 mm	Fluorescent chemistry	Probe/EvaGreen®
Weight	Approximately 60 kg	Detection channel	Up to 6 colors
Work environment	Temperature 15-40°C	Droplet volume	0.8 nl
	Humidity ≤ 85%	Sensitivity	1 copy/ reaction
Power input	100-240VAC, 50/60Hz	Dynamic range	5 orders of magnitude
Anti-pollution	FFU, UV lamp	Precision	±10%
Droplet generation	VibroJect™ technology	Sample illumination	Light-emitting diodes
Starting sample size	20 µl	Sample Detection	sCMOS
Sample capacity	Up to 16 or 24 tests/run	System components	All-in-one single part
Droplets per 20µl rxn	~23,000	Touch screen	17.3" LCD
Maximum ramp rate	5°C/sec	Crosstalk correction	Yes
Thermal accuracy	±0.3°C	Stand-alone run	Yes
Thermal uniformity	±0.3°C	Export format	.Png/.Pdf/.Csv
Temperature range	4- 98°C	Data quality control	QC Image
Temperature precision	±0.1°C		

Ordering Information

A01-001_A	DQ24 Digital PCR System	All-in-one, 3 Fluorescence Channels: FAM、VIC、ROX
A01-002_A	DQ24 Plus Digital PCR System	All-in-one, 5 Fluorescence Channels: FAM、VIC、ROX、CY5、CY5.5
A01-003_A	DQ24 Pro Digital PCR System	All-in-one, 6 Fluorescence Channels: FAM、VIC、ROX、CY5、CY5.5、CY3
RC00101016	Digital PCR Consumables (Dye)	96 Tests / Set, Including dPCR Master Mix(EvaGreen)
RC00301016	Digital PCR Consumables (Probe)	96 Tests / Set, Including dPCR Master Mix(Probe)
RC00501016	Digital PCR Consumables (One-step)	96 Tests / Set, Including One-step RT-dPCR Master Mix(Probe)
S00101001	Sight Software, Regulatory Edition	Compliant with FDA 21 CFR Part 11



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致力于为行业提供
快速、灵敏、精准、智能 的分子诊断解决方案



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