



Sniper DQ Lite Digital PCR System

Fully automated digital PCR solution

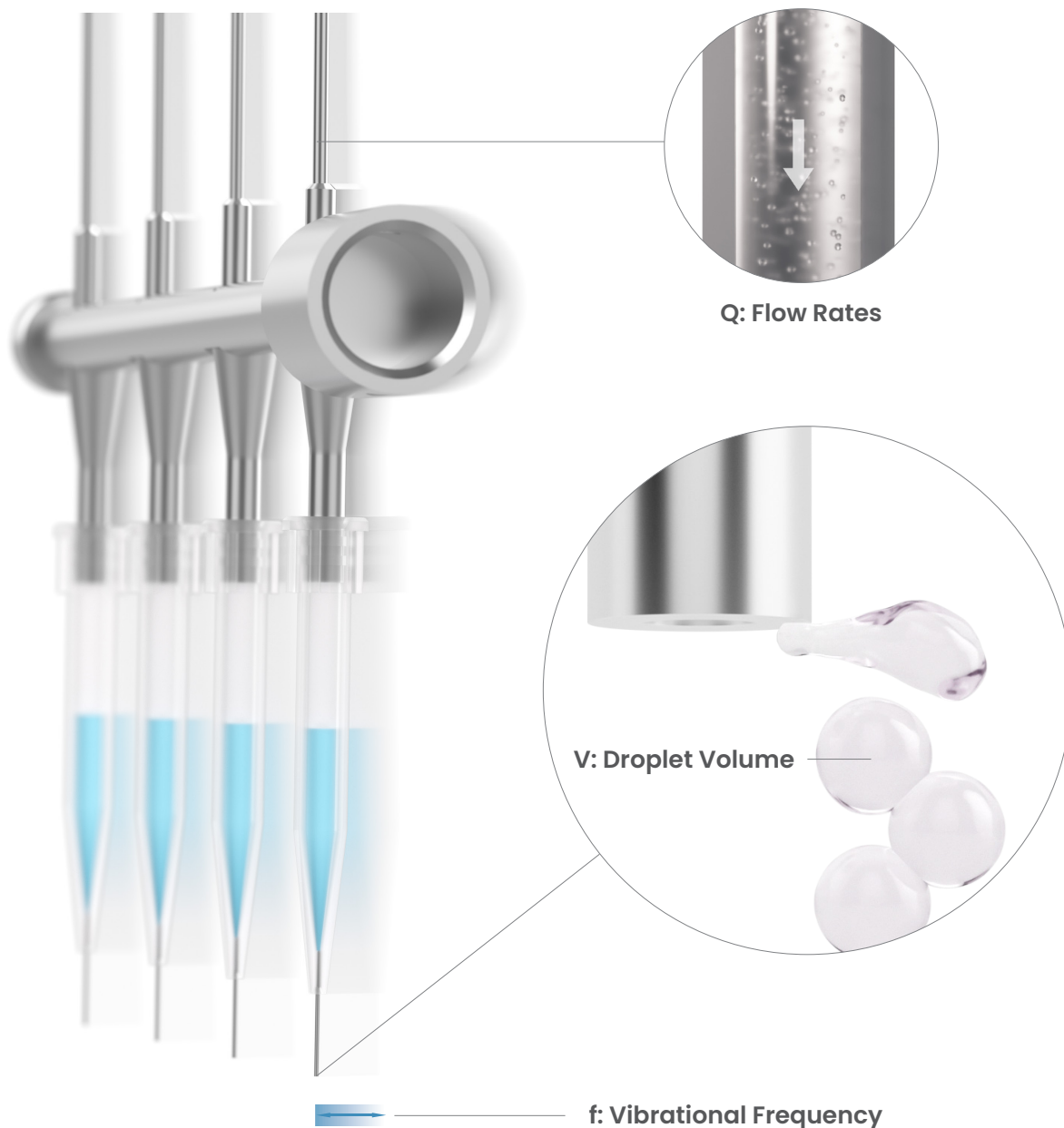
Innovative VibroJect® Technology

Sniper patented VibroJect® technology is a novel droplet generation method enabling droplet generation without reliance on a microfluidic chip.

The VibroJect® technology is an efficient, fast and reliable method for droplet generation. Below the oil surface, the dPCR reaction mixture flows from a microneedle into the oil phase at a constant speed under the control of a sophisticated syringe pump, while the microneedle 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.

$$\text{VibroJect}^{\circledR} \quad V=Q/2f$$

Droplet volume is precise regardless of external conditions.



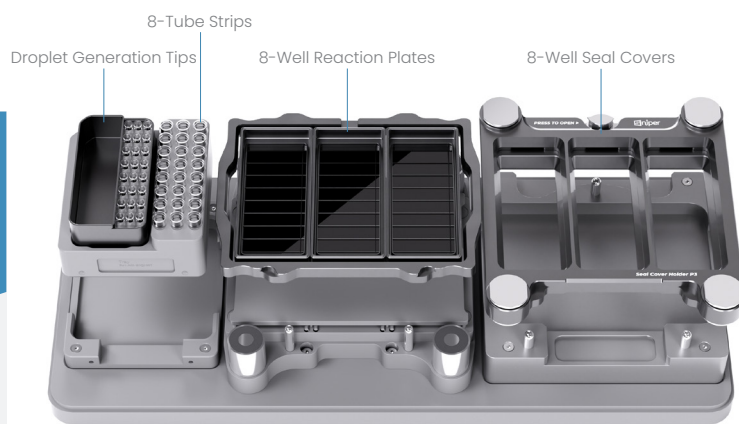
Work Flow

1 Min

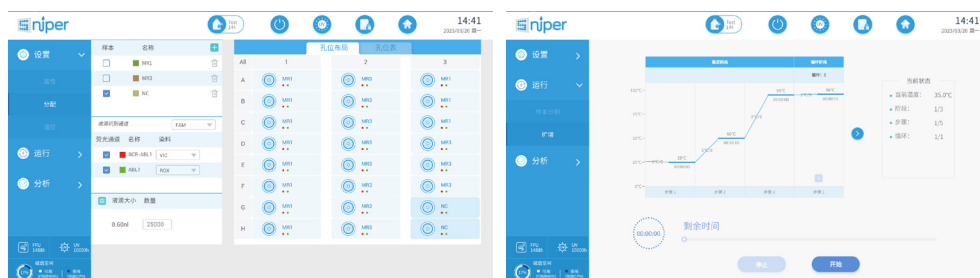
Hands-on Time

Manual

Prepare Instrument



Place reaction tubes and consumables into the instrument.



Input sample names, cycling program and detection channels then run!

Manual

Program Setting

Auto 1

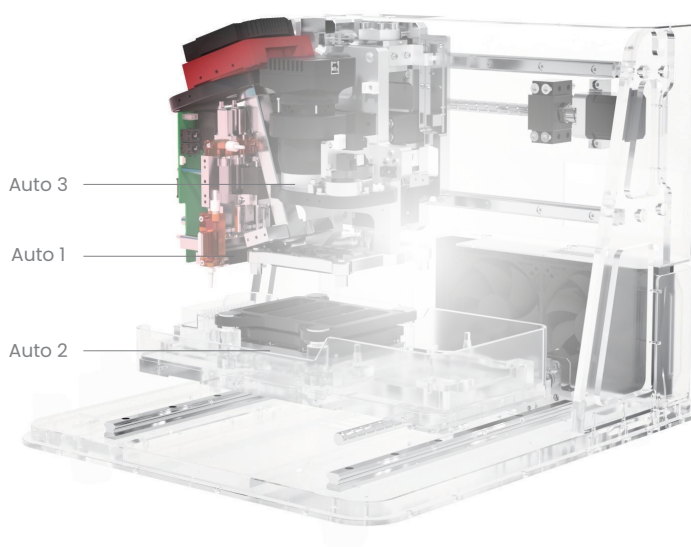
Droplet Generation

Auto 2

Cycling

Auto 3

Imaging

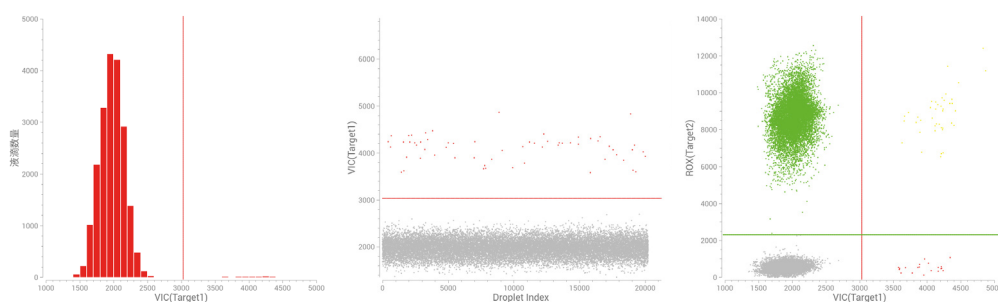


Auto

Data Analysis

90 Mins

Total Run Time

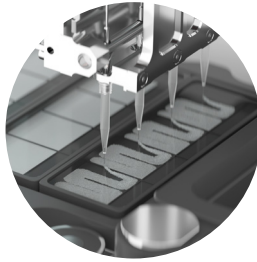


Features and Benefits

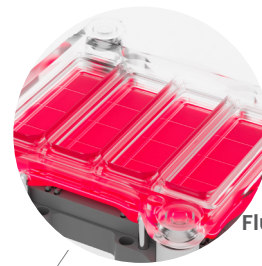
All-in-one Instrument

Minimal hands-on time
Results in 1.5-2 hours
No need for external peripheral equipments

Droplet Generation Module



PCR Amplification Module

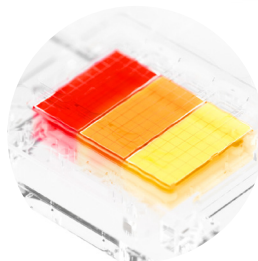


Fluorescence Detection Module



Easy to Use

8-tube strips
Fully automated



Advanced Temperature Module

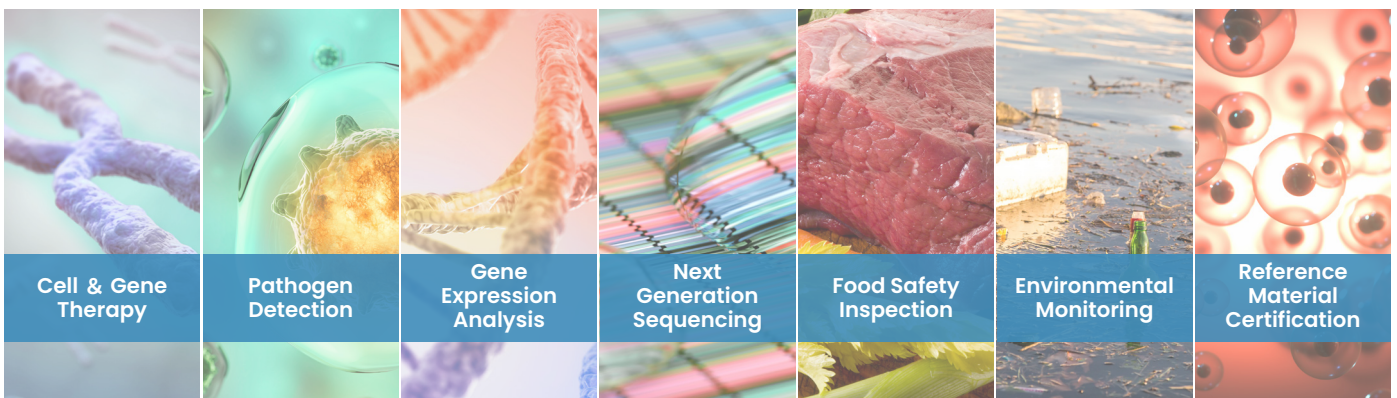
Precise temperature control for
cycling with gradient option available



3 Channels

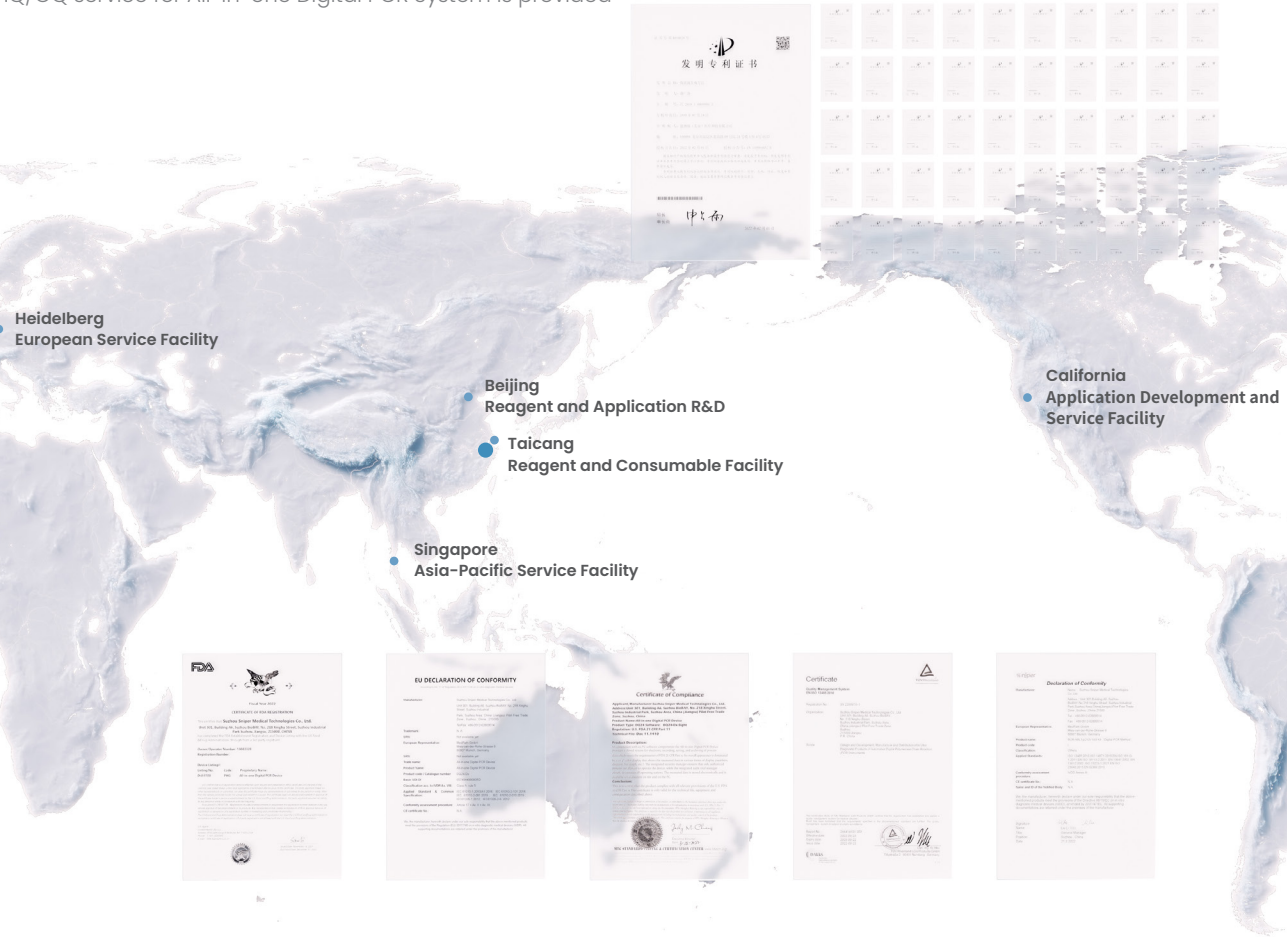
Support digital PCR with dye,
probe and one-step method

Applications



In China For Global

- * Exclusive patents filed for China, USA, Canada, Europe and Japan
- * Sniper has passed the certification of ISO13485:2016-Medical Device-Quality Management System and obtained the certificate
- * All-in-one Digital PCR system has entered the Special Review Program for Innovative Medical Devices of National Medical Products Administration (NMPA)
- * ALL-in-one Digital PCR System has obtained FDA and CE approvals
- * Leukemia Fusion Gene BCR-ABL1 (p210) Nucleic Acid Detection Kit (Digital PCR) received CE and FDA Market Access Qualification
- * DQ24-sight software complies with FDA CI.22FR Part 11
- * IQ/OQ service for All-in-one Digital PCR System is provided



Ordering Information

Catalog #	Product Name	Note
RM001006A	All-in-one Digital PCR System	DQ Lite
Service		
RS001001	IQ/OQ	
RS001002	21 CFR Part 11 V1.0.0	Compliant with FDA 21 CFR Part 11
Universal Reagents		
RT002096A	2×dPCR EvaGreen Master Mix (Rox)	Dye Method 96 tests/Pack
RT021096A	2×dPCR Probe Master Mix Plus (Rox)	Probe Method 96 tests/Pack
RT003096A	2×One-step RT-dPCR Probe Super Mix (Rox)	One-step Method 96 tests/Pack
RW007096A	Sniper Digital PCR Consumables Set	DQ Series 96 tests/Pack

Specifications

Dimensions	495mm×500mm×560mm	Droplet Generation Method	VibroJect™
Weight	60kg	User Interface	17.3-inch internal touchscreen
Work Conditions	Temperature 15-40°C Humidity≤80%	Chemistries	Dye Method; Probe Method; One-step Method
Power	100-240VAC, 50/60Hz	Quality Control	Standalone QC software module that automatically performs quality control on each droplet. Editing functions are available.
Contamination Control	FFU, UV lamp		



Company Introduction

Suzhou Sniper Medical Technologies Co., Ltd., established in 2018, is dedicated to providing rapid, sensitive, accurate, and intelligent molecular diagnostic solutions. The company has developed the VibroJect® technology, a globally patented droplet generation method based on next-generation vibration injection technology. This innovation has pioneered a new, chip-free droplet generation pathway, effectively addressing the high costs and complex operations associated with microfluidic technologies in practical applications. It is poised to revolutionize the field of precision medical testing.

Building upon this technology, Sniper Medical Technologies has introduced the Sniper DQ Series All-in-one Digital PCR System, which only requires sample loading with an 8-tube strip. The system achieves full automation of the entire experimental process without manual intervention. Its single-test consumable costs are significantly lower compared to similar products, facilitating the widespread adoption of digital PCR technology across various application scenarios.

Currently, Sniper Medical Technologies has completed its fourth round of financing, securing hundreds of millions of CNY in capital. The company has established a 6,100 m² research and development center and a 7,900 m² production base, assembling a robust and comprehensive team for instrument and reagent development and production. These efforts provide solutions for life science research, clinical diagnostics, application testing, and the development of new therapies and drugs.



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