

Sniper DQ24 Plus Digital PCR System

Fully automated digital PCR solution

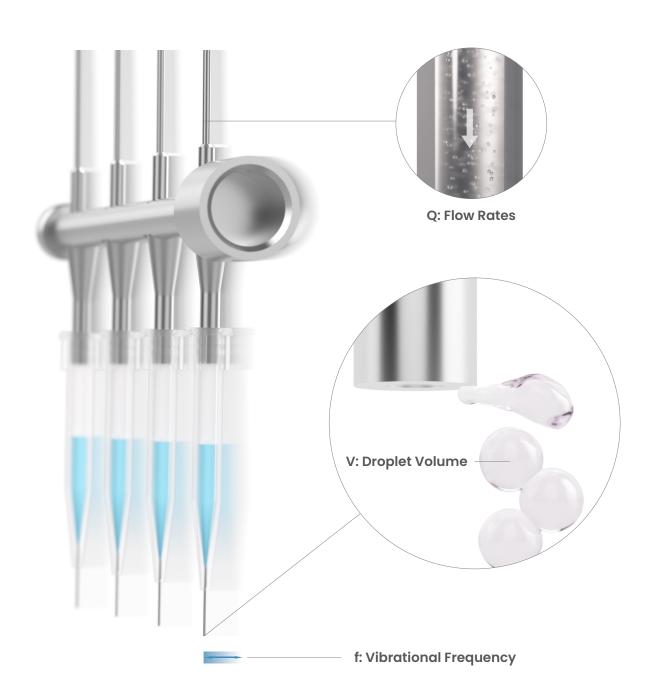
Innovative VibroJect® Technology

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.

VibroJect® V=Q/2f

Droplet volume is precise regardless of external conditions.





HRD Mode

Copy Number Variation NIPT

Standard Mode

Absolute Quantification Liquid biopsy

Methylation NGS Library

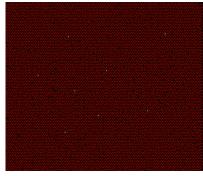
HS Mode

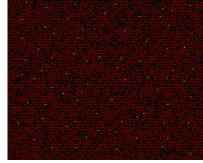
Rare mutation Detection

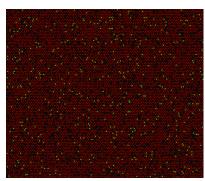


Automated sample aspiration and dispensing to maximise sample use

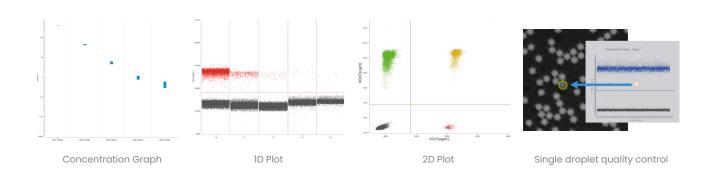
DQ24 Plus performance detecting the BCR-ABL1 fusion gene







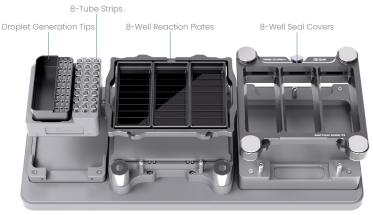
MR 4.5 MR 3.0 MR 2.0



Work Flow



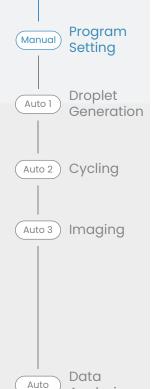
Prepare Instrument



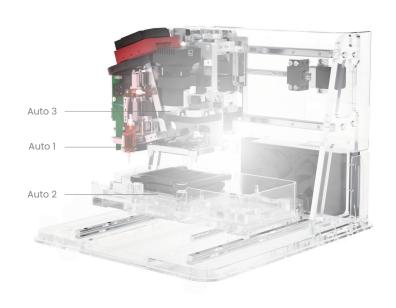
Place reaction tubes and consumables into the instrument.



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



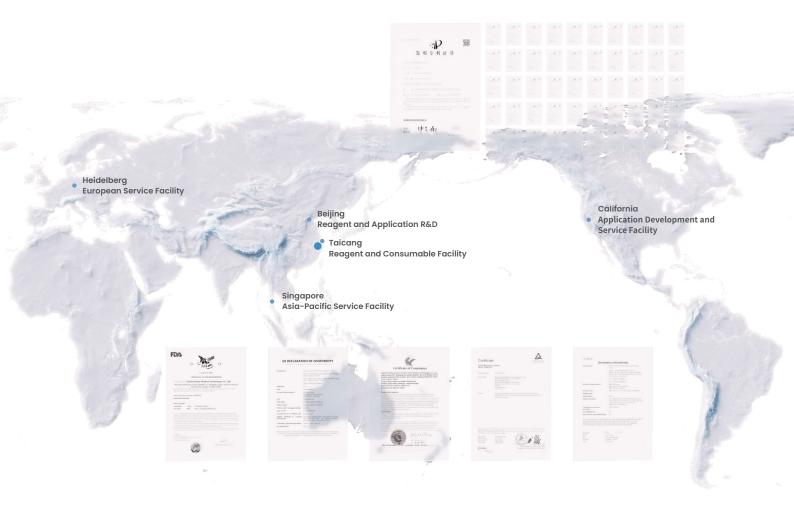
Analysis



90 Mins
Total Run Time

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 C1.22FR Part 11
- * IQ/OQ service for All-in-one Digital PCR System is provided



Applications



Features and Benefits



All-in-one Instrument

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



PCR Amplification Module







Easy to Use

8-tube strips Fully automated



Flexible

1-16/24 reaction size consumables to meet different throughput demands



6+1 Channels

Supports up to 21 fluorophore combinations

Advanced Temperature Module

Precise temperature control for cycling with gradient option available

Ordering Information

Catalog #	Product Name	Note	
RM001008A	All-in-one Digital PCR System	DQ24 Plus	
Service			
RS001001	10/00		
RS001002	21 CFR Part 11 V1.0.0	Compliant with FDA 21 CFR Part 11	
Universal Re	agents		
RT002096A	2×dPCR EvaGreen Master Mix (Rox)	Dye Method	96 tests/Pac
RT021096A	2×dPCR Probe Master Mix Plus (Rox)	Probe Method	96 tests/Pac
RT017096A	2×dPCR Probe Master Mix Plus (Cy5.5)	Probe Method	96 tests/Pac
RT020096A	4×dPCR Probe Master Mix (Cy5.5)	Probe Method	96 tests/Pac
RT003096A	2×One-step RT-dPCR Probe Super Mix (Rox)	One-step Method	96 tests/Pac
RT018096A	5×One-step RT-dPCR Probe Super Mix (Cy5.5)	One-step Method	96 tests/Pac
Blood Cance	er Solution		
T005048E	BCR-ABL1 (p210) %IS Kit	Digital PCR Method	48 Tests/Kit
RT013048C	BCR-ABLI (P190) Detection Kit	Digital PCR Method	48 Tests/Kit
RT014048C	BCR-ABL1 (P230) Detection Kit	Digital PCR Method	48 Tests/Kit
RTL10048C	PML-RARα (L-Type) Detection Kit	Digital PCR Method	48 Tests/Kit
RTS10048C	PML-RARα (S-Type) Detection Kit	Digital PCR Method	48 Tests/Kit
RT012048C	AML-ETO Detection Kit	Digital PCR Method	48 Tests/Kit
RTV15048C	KIT D816V Detection Kit	Digital PCR Method	48 Tests/Kit
RTY15048C	KIT D816Y Detection Kit	Digital PCR Method	48 Tests/Kit
RTH15048C	KIT D816H Detection Kit	Digital PCR Method	48 Tests/Kit
RTK15048C	KIT N822K (A-Type/G-Type) Detection Kit	Digital PCR Method	48 Tests/Kit
RTF15048C	JAK2 V617F Detection Kit	Digital PCR Method	48 Tests/Kit
Solid Tumor	Solution		
T080048E	EGFR Mutation Universal Detection Kit	Digital PCR Method	48 Tests/Kit
T001048C	EGFR Exon 21-L858R Detection Kit	Digital PCR Method	48 Tests/Kit
T002048E	EGFR Exon 20-T790M Detection Kit	Digital PCR Method	48 Tests/Kit
T003048C	EGFR Exon 21-L861Q Detection Kit	Digital PCR Method	48 Tests/Kit
T004048E	EGFR Exon 21-L858R & 19-del Detection Kit	Digital PCR Method	48 Tests/Kit
nfectious Di	sease Solution		
T110048C	Mycobacterium tuberculosis Complex cfDNA Detection Kit	Digital PCR Method	48 Tests/Kit
RK081048C	Multiplex Viral Encephalitis & Meningitis Pathogens Detection Kit	Digital PCR Method	48 Tests/Kit
RK082048C	Multiplex Bloodstream Infecton Pathogens Detection Kit	Digital PCR Method	48 Tests/Kit
RK001048C	Multiplex Respiratory Pathogens Detection kit	Digital PCR Method	48 Tests/Kit
RK002048C	Enterovirus Universal Detection Kit	Digital PCR Method	48 Tests/Kit
RK121048C	ctHPV Detection and Genetype Kit	Digital PCR Method	48 Tests/Kit
RK003048C	2019-nCoV Detection Kit	Digital PCR Method	48 Tests/Kit

Specifications

495mm×500mm×560mm		
60kg		
Temperature 15-40°C	Humidity≤80%	
100-240VAC, 50/60Hz		
FFU, UV lamp		
	60kg Temperature 15-40°C 100-240VAC, 50/60Hz	

Droplet Generation Method	VibroJect™	
User Interface	17.3-inch internal touchscreen	
Chemistries	Dye Method; Probe Method; One-step Method	
Quality Control	Standalone QC software module that automatically performs quality control on each droplet. Editing functions are available	



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.



Principle Demo



Wechat Official Account 0512-62809514 sniperorder@sniper-tech.com www.sniper-tech.com Unit 101, Building 27, Bio-Industrial Park, No. 218 Sangtian Street, Industrial Park, Suzhou, China