

Sniper DQ24 Plus Digital PCR System

Highly automated digital PCR solution

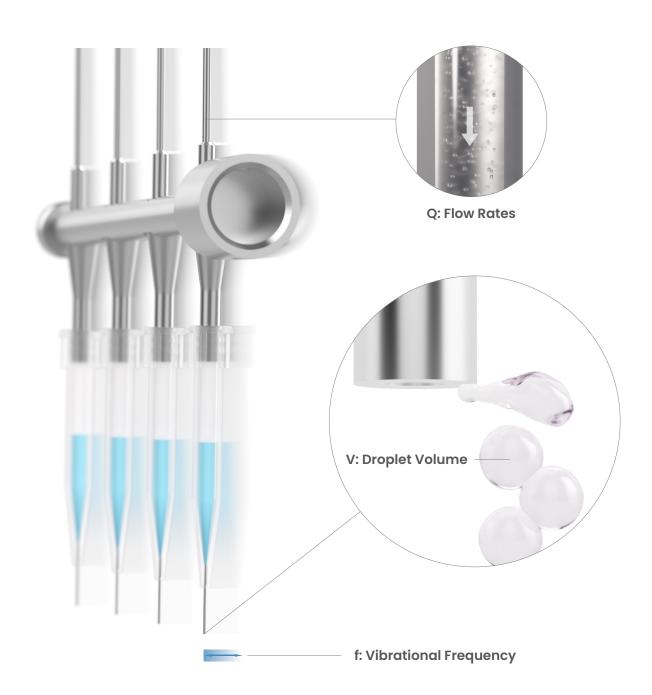
Innovative VibroJect® Technology

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

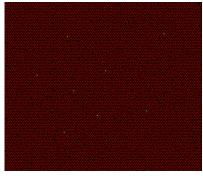
HS Mode

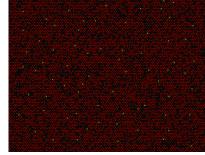
Rare mutation Detection

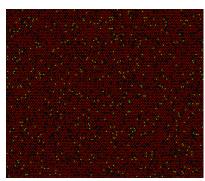


Automated sample aspiration and dispensing to maximise sample use

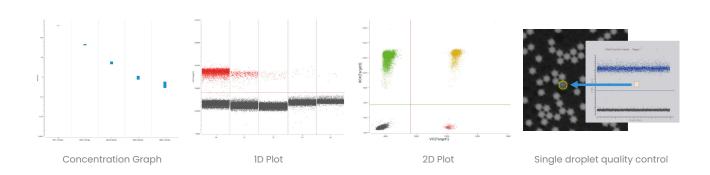
DQ24 Plus performance detecting the BCR-ABL1 fusion gene







MR 4.5 MR 3.0 MR 2.0



Work Flow



Manual Prepare Instrument

8-Well Strip Tubes

Droplet Generation Tips

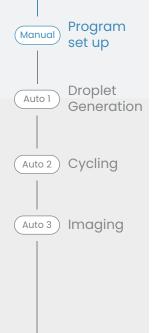
8-Well Reaction Plate

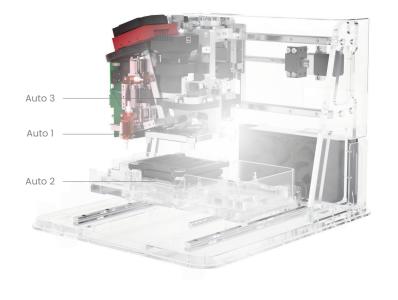
8-Well Seal Cover

Place reaction tubes and consumables into the instrument.



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





90min
Total Run Time

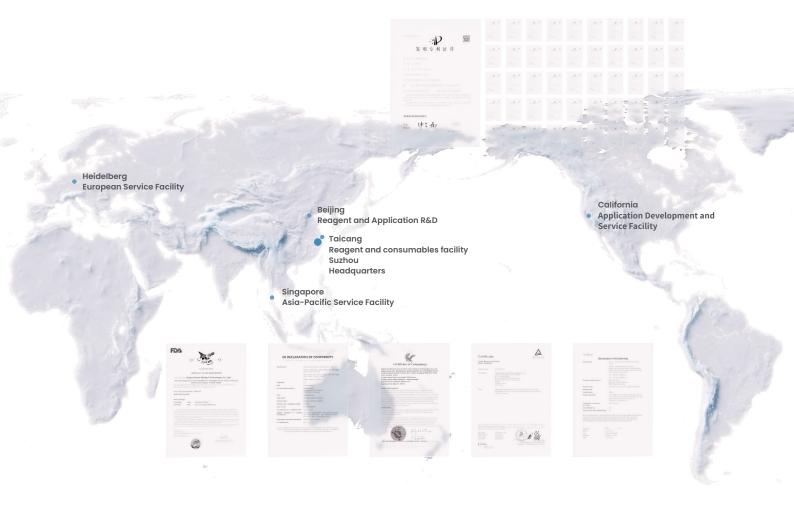
Data

Analysis

Auto

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 Oualification
- * 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 equipment



PCR Amplification Module







Easy to Use

8-tube strips Highly automated



6+1 Channels

Supports up to 21 fluorophore combinations

Flexible

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

Advanced Temperature Module

Precise temperature control for cycling with gradient option available

Ordering Information

Catalog # RM001008A	Product Name All-in-one Digital PCR System	Note 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/Pacl
RT020096A	4×dPCR Probe Master Mix (Cy5.5)	Probe Method	96 tests/Pacl
RT003096A	2×One-step RT-dPCR Probe Super Mix (Rox)	One-step Method	96 tests/Pacl
RT018096A	5×One-step RT-dPCR Probe Super Mix (Cy5.5)	One-step Method	96 tests/Pacl
Hematologia	cal Malignancy Solution		
LT005048E	Leukemia Fusion Gene BCR-ABL1 (p210) Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RT013048C	Human Leukemia Fusion Gene BCR-ABL1 (P190) Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RT014048C	Human Leukemia Fusion Gene BCR-ABL1 (P230) Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTL10048C	Human Leukemia Fusion Gene PML-RARα (L-Type) Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTS10048C	Human Leukemia Fusion Gene PML-RARα (S-Type) Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RT012048C	Human Leukemia Fusion Gene AML-ETO Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTV15048C	Human KIT Gene D816V Mutation Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTY15048C	Human KIT Gene D816Y Mutation Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTH15048C	Human KIT Gene D816H Mutation Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTK15048C	Human KIT Gene N822K (A-Type/G-Type) Mutation Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RTF15048C	Human JAK2 Gene V617F Mutation Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
Solid Tumor	Solution		
LT080048E	Human EGFR Gene Mutation Detection Kit (Dightal PCR)	Digital PCR Method	48 Tests/Kit
LT001048C	Human EGFR Gene L858R Mutation Detection Kit (Dightal PCR)	Digital PCR Method	48 Tests/Kit
LT002048E	Human EGFR Gene T790M Mutation Detection Kit (Dightal PCR)	Digital PCR Method	48 Tests/Kit
LT003048C	Human EGFR Gene L861Q Mutation Detection Kit (Dightal PCR)	Digital PCR Method	48 Tests/Kit
T004048E	Human EGFR Gene L858R & 19DEL Mutation Detection Kit (Dightal PCR)	Digital PCR Method	48 Tests/Kit
Multiple Path	nogen Infection Solution		
LT110048C	Plasma Mycobacterium tuberculosis Complex cfDNA Nucleic Acid Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RK081048C	Multiplex Viral encephalitis Pathogens Ditection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RK082048C	Multiplex Bloodstream Infecton Pathogens Pathogens Ditection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RK001048C	Multiplex Respiratory Pathogens Detection kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RK002048C	Enterovirus Universal Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
RK003048C	2019-nCoV Detection Kit (Digital PCR)	Digital PCR Method	48 Tests/Kit
Specificat	ions		
Dimensions	495mm×500mm×560mm Droplet Generation Method Vibro le	O+TM	

495mm×500mm×560	mm
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

Sniper Medical Technology Ltd., founded in 2018, is dedicated to providing fast, sensitive, accurate and intelligent diagnostic solutions for the medical industry. Taking a novel droplet generation technology as the breakthrough, our company has developed a droplet generation method with global independent intellectual property rights—Vibration Injection Technology (VibroJect®). It completely solves the two key pain points, high cost and complicated operation, for microfluidic technology in practical application at the source. Our system is expected to bring a disruptive revolution in the field of precision medcine.

Based on this technology, Sniper has launched the world's first all-in-one digital PCR system, Sniper DQ24 Plus, which requires only 8-tube strip for sampling. It not only realizes the automation of whole workflow of experiment without the needs of human participation, but also significantly reduces the cost of consumables for a single test compared to similar products, which is expected to realize the landing and popularization of digital PCR technology in various application scenarios.

Currently, our company has completed a hundreds of million yuan fourth funding round. We have established a 6100 m² R&D center and a 7900 m² production base. A strong and complete R&D and production team for instruments and supporting reagents has been set up to provide solutions for the development of life science research, clinical diagnostics, applied testing and new therapeutic/drug.



Principle Demo



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