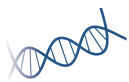# Fully Automated Digital PCR System

SCI Digital PRO

Reasons to choose SCI Digital PRO

☑ **4 in 1, Fully Automated**

Sample loading, droplet generation, PCR amplification, and signal reading
Complete automation and integration eliminate manual errors

☑ **Ultra-Multiplex quantification**

(6+1) fluorescence channels compatible with
Exponential Ultra-Multiplex Digital PCR function

☑ **High droplet stability**

Innovative physical oil-water isolation technology prevents
droplet breakdown and fusion. Effective droplet ratio > 95%

☑ **High compatibility with market PCR Mix**

Microfluidic chip technology compatible with market PCR mix
Facilitates rapid system matching and efficient kit development

☑ **Dual independent thermal modules**

24 samples, 2 PCR thermal modules
Simultaneous running of different programs

☑ **Models with fluorescent channel number**

Choose from models with 4/5/6/(6+1) fluorescence channels

SCI Digital Pro

SCI Digital PRO

Product Specification

Throughput	24 Samples
Sample volume	25~30μL
Droplet number	> 20,000
Fluorescence channels	Atto425, FAM(Evagreen), HEX(VIC), ROX, Cy5, Q705, Customizable Channel
Chip scanning time	Single channel: < 0.5 min/sample
Optical sensor	CMOS
Light source	LED
Size	W 440mm, D 628mm, H 497mm
OS interface	English, Chinese

Fully Automated & Integrated Digital PCR Device

Technical Specification

Sensitivity	0.01%
Dynamic range	5logs
Effective droplet ratio	≥ 95%
Droplet uniformity	> 99%
Droplet uniformity	± 10%

Droplet Generating Chip

Chip 20K-B	20,000 droplets
Customized chip	80,000 droplets

Digital PCR Chip

Digital PCR Universal Kits

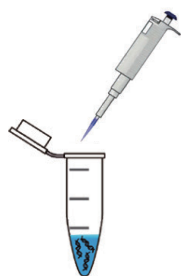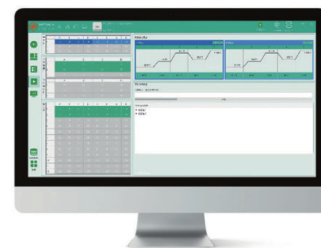| Composite	Components
Reagents	PCR Mix (enzymes, buffer), oil phase A & B
Comsumables	Chips, 8-tube strips & caps, pipette tips

Digital PCR Kits

Extremely Easy Workflow

dPCR Master Mix
24-well plates
8-tube strips, single tube

4 in 1, Fully Automated
Sample loading, droplet generation,
PCR Amplification, and signal reading

Data Analysis
Raw droplet image, data tracking,
automatic report generation

Applications

Liquid Biopsy
· Rare mutation detection
· Copy number variations
· Methylation screening
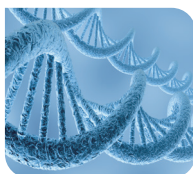· MRD
· Drug resistance monitor

Infectious Diseases
· Multiplex respiratory test
· Multiplex V. vulnificus test
· Multiplex sepsis test
· Pathogen genotyping

Reproductive Genetics
· Trisomy 21 detection
· SMA detection
· RhD- blood type detection
· Deafness gene detection

Biopharmaceuticals
· AAV titer quantification
· QC for stem cells, Car-T cells, NK cells, etc.
· Gene editing quantification and QC
· Host cell residual DNA detection
· RNA vaccine gene variation quantification

Reference Materials
· Nucleic acid reference material quantification
· Enterprise reference material quantification
· Sequencing library quantification
· Nucleic acid QC material quantification

Environment
· Water microorganisms
· Livestock pathogens
· Geothermal archaea

Agriculture
· Molecular breeding
· Crop pathogen control
· Aquaculture pathogen
· Animal disease prevention

Food Safety/Inspection
· Transgenic crops/foods
· Imported & exported food pathogens
· Animal-derived food detection
· Residual microorganism tracing

Credentials

Leading life science and molecular diagnostics into digital era

Shanghai Turtle Technology Co., Ltd.

Turtle Technology is dedicated to leading life sciences and molecular diagnostics into digital era. We have been granted the National Gene Testing Technology Application Demonstration Center and the nation's first Digital PCR Metrological Evaluation Certificate. We have introduced series of digital PCR systems, achieving full-chain technology innovations of genetic testing instruments, chip consumables, Ultra-Multiplex technology, and ultra-high specificity polymerase for molecular diagnostics.

Product Type	Model	Feature
Digital PCR Systems	SCI Digital PRO	◆ 4 in 1, fully automated & integrated ◆ 6+1 flurescence channels ◆ 24 sample parallel processing ◆ Dual independent PCR thermal modules ◆ Ultra-Multiplex PCR quantification system
	SCI Digital	◆ 4 in 1, mini, fully automated & integrated ◆ 2/3/4/5 flurescence channels ◆ NMPA registered ◆ CE certified
	BioRuler	◆ 4 in 1, mini, fully automated & integrated ◆ Designed for accurate quantification ◆ Upgradable to 2/3/4/5 flurescence channels ◆ Highly cost-effective: CNY 149,000

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