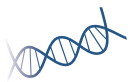


Full-Modality Molecular Detection System

Digital Omni



Reasons to choose Digital Omni

✓ **Nucleic Acids and Proteins, One System**

Integrating digital PCR, digital isothermal Amplification, and digital immunoassays

✓ **4 in 1, Fully Automated**

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

✓ **Ultra-Multiplex Quantification**

Compatible with the Exponential Ultra-Multiplex digital PCR function
Quantification of 15–30 targets in a singel reaction

✓ **High Droplet Stability**

Femtogram-level sensitivity in protein detection, 100-1000x higher than traditional ELISA
Lowered background noise and improved the signal-to-noise ratio

✓ **High Compatibility with Market PCR Mix**

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

✓ **Dual Independent Thermal Modules**

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

✓ **Multiplex Fluorescent Channels**

Choose from models with 4-7 fluorescence channels

✓ **Low test cost**

As low as traditional ELISA



Product Specification

Throughput	24 Samples
Sample volume	25~30μL
Droplet number	> 20,000
Fluorescence channels	FAM(Evagreen), HEX(VIC), ROX, Cy5, Q705, Atto425, Cy7/customizable channel
Chip scanning time	Single channel: < 0.5 min/sample
Optical sensor	CMOS
Light source	LED
Size	W 440mm, D 628mm, H 497mm
Language	English, Chinese



Technical Specification

Sensitivity	0.01%
Dynamic range	5logs
Effective droplet ratio	≥ 98%
Droplet uniformity	> 99%
Quantification Accuracy	± 10%

Droplet Generating Chip

Type L-20K	20,000 droplets
Type L-60K	60,000 droplets



Digital PCR Chip

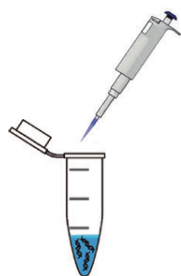
Digital PCR Universal Kits

Composite	Components
Reagents	PCR master mix, oil A & B
Comsumables	Chips, 8-tube strips, pipette tips



Digital PCR Kits

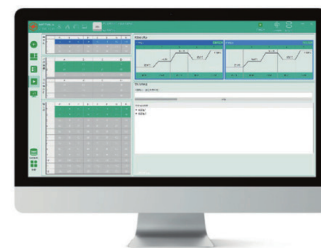
Extremely Easy Workflow



dPCR Preparation
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 ◆ 2-7 fluorescence channels ◆ 24 sample parallel processing ◆ Dual independent PCR thermal modules ◆ Exponential Ultra-Multiplex ◆ CE certified
	 Digital Omni	◆ All in 1, full modality: nucleic acid & protein ◆ 7 fluorescence channels ◆ 24 sample parallel processing ◆ Dual independent PCR thermal modules ◆ Ultra-Multiplex, Digital Isothermal, Immo-PCR ◆ Single-Molecule Antigen Quantification

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Line



WeChat



Public Wechat