



# Droplet Chip Digital PCR Analysis System

**FDD-16A**



DigitalGene 1600

## Safe and Simple

Fully enclosed chip design to avoid cross contamination. One step sample loading without additional operations.

## Ultrasensitive

Without standarding curve, single copy detection can be achieved.

## Optimized Algorithm

Unique patented imaging technology and image analysis to improve the accuracy of data analysis.

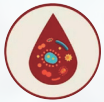
## Unique Droplet Preparation

Centrifuge droplet generation technology, no bubble interference, no dead volume.

## Introduction

Droplet Chip Digital PCR Analysis System is a six-multiplex digital PCR platform used for the precise and ultrasensitive quantification of nucleic acids without standarding curve. The system contains droplet generator, PCR system and microchip reader, the generator partitions samples into 25000-32000 droplets, after PCR, the readers detect different fluorescence signal of each droplet, According to specialized software and algorithms, the template quantity can be calculated.

## Application Fields



Liquid Biopsy Of Tumor Markers



Infectious Disease Detection



Companion Diagnostics



Noninvasive Prenatal Diagnosis

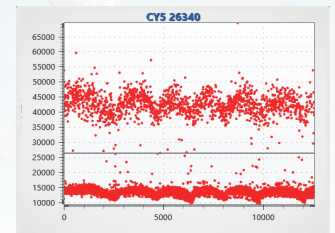
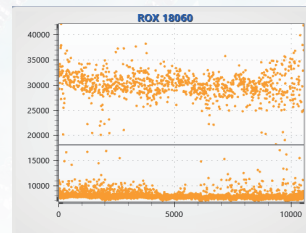
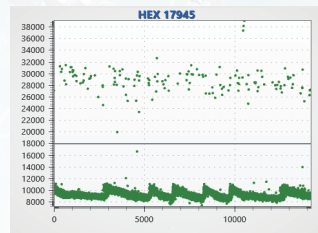
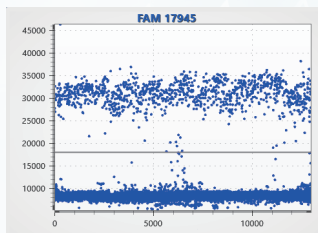


Food Testing



Environmental Microbial Testing

## Data Presentation



## Product specifications

Product name	Droplet Chip Digital PCR Analysis System
Product Model	FDD-16A
Droplet Count	~25000-32000
Sample Size $\mu$ L	16
Droplet Generation Rate	2-3 min/16 samples
Reader Scan Speed	25min/16 samples/6 channels
Throughput	1-16
Detection Channel	6 (FAM, HEX, ROX, CY5, CY5.5, customized)
Droplet Volume	~95 $\mu$ m
Dynamic Range	5log
Sensitivity	1-100,000 copies
Dimension	Droplet generator:380 $\times$ 240 $\times$ 170mm PCR:560 $\times$ 380 $\times$ 320mm Microchip Reader:565 $\times$ 413 $\times$ 265mm
Power	Droplet generator:100W PCR:1200W Microchip Reader:200W

\*Data tested at standard laboratories.