# DIGITAL REAL-TIME PCR

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LORA





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# SIMPLICITY AT ITS FINEST

LOAA(Lab On An Array) is a partitioned well-based PCR system. It adopts a semiconductor, a CMOS photo sensor that enables real-time digital PCR, real-time PCR and multiplex PCR in one platform.

LOAA Digital PCR has the simplest workflow. The PCR and analysis can be performed in one system. It does not require any other supporting instruments, like another thermal cycler, droplet generator or well partitioning instrument. Each individual PCR reaction can be performed in a finely divided well of the cartridge which is loaded by simple injection of samples to be analyzed.

- Stand alone Digital PCR analyzer
- Interactive 5.5" touch screen
- Remote status monitoring
- Barcode built-in system
- Intuitive user interface

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LORA

LOAM

Everything can be digitized

20K wells



5K wells

#### **Digital PCR**

Every test in an hour | Pre-partitioned wells | The simplest Digital PCR workflow

#### **Viral load determination**

Check a numerical expression of the quantity of virus in a given volume HIV, CMV, HBV, HCV

#### **Copy number variation**

Confirm whether the copy number of a sequence of interest deviates from wild type and by how much

Single cell analysis Can detect expression levels of multiple genes in a set of single cells

# NGS library validation

Quantifies and normalizes sample variants

#### **Gene expression**

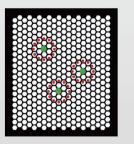
Detects very small difference in gene expression level

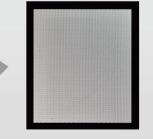
LOAA is a unique digital PCR platform which can perform absolute quantitation in a real time fashion. You can see the real-time PCR amplification curves throughout your digital PCR process. LOAA also provides an easy and user-friendly solution for digital PCR. A specially designed LOAA cartridge and cartridge loader allow you to simply 'load and go' in less than 2 minutes.

# Digital PCR, Easier than ever



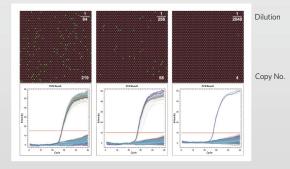
## Digital Real-Time PCR Absolute quantification





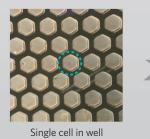
400 target qPCR test

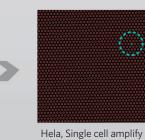
20K-well Digital PCR test

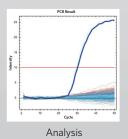


Two-fold serial dilution of sample: HeLa gDNA Target: Glob

## Digital Real-Time PCR Single Cell Analysis







The simplest workflow Minimal hands-on time 2-Color fluorescent signal

### The Simplest Digital PCR Workflow Just 3 steps to get result







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## Ordering information

Cat No.	Product name
LAM301	LOAA Analyzer
DPM4010X	Dr.PCR 20K Cartridge(30T)
DPM402OX	Dr.PCR 5K Cartridge(30T)