

ViPlex Fluor 96 Real-Time PCR System



ViPlex Fluor96 Real-Time PCR System

Orchestrating qPCR with optimum performance & confidence



The ViPlex Fluor96 Real-Time PCR System, a touchscreen quantitative fluorescence real-time PCR system that is engineered to redefine your molecular analysis experience. With versatile temperature control modes of Block or Analog Tube, this system offers adaptability to suit diverse experimental setups. Its dual operating system and intuitive 10-inch high-definition colour touchscreen provide seamless navigation, while the built-in analysis software ensures effortless usability.

Combining cutting-edge thermal cycling technology, precise photomultiplier tube detection, and robust software capabilities, the ViPlex Fluor96 Real-Time PCR System guarantees the utmost accuracy in your experimental results. Whether you are conducting gene expression analysis, SNP genotyping or pathogen detection, this innovative PCR system empowers you to achieve groundbreaking discoveries with confidence. Trust in ViPlex Fluor96 Real-Time PCR System to elevate the accuracy and efficiency of your molecular analysis, leading you towards unprecedented scientific advancements.

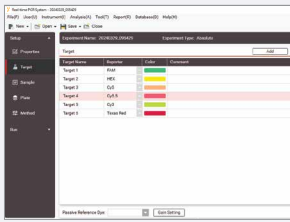
Applications

- Pathogen/disease detection
- Meat identification
- Gene expression analysis
- Genotyping/allelic discrimination
- Genetically modified organism (GMO) detection



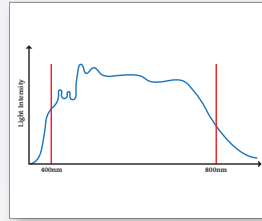


Features



Versatile

6-channel platform available for the widest range of dyes available: FAM™/SYBR Green; HEX™/VIC®/TET™/JOE™; TAMRA/NED™/Cy3™; ROX™/Texas Red®; Cy5™, Cy5.5™



High Sensitivity

Full-spectrum high-power LED with highly sensitive Hamamatsu photomultiplier tube top scanning enables for high sensitivity of the system



High Accuracy

High accuracy temperature control guarantees the system block temperature resolution and uniformity at $\leq 0.1^{\circ}\text{C}$



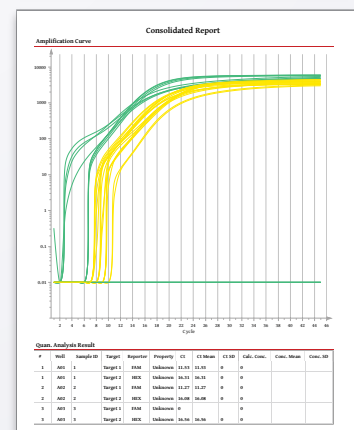
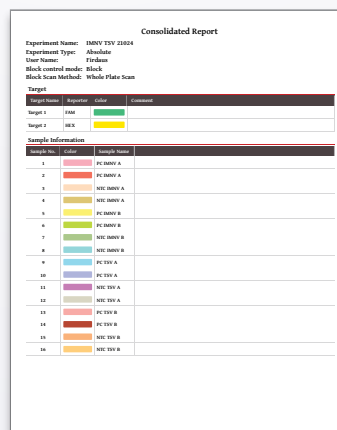
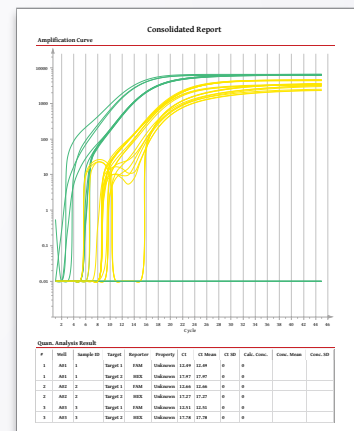
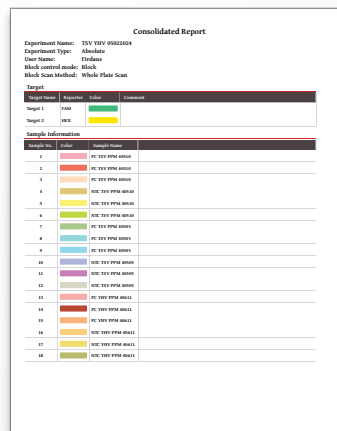
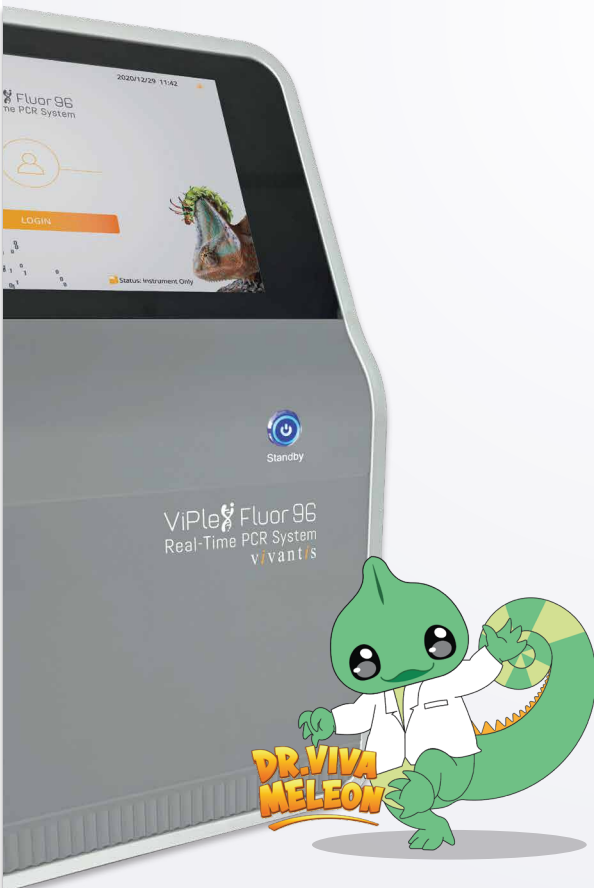
High Consumables Flexibility

Universal block for clear 0.2ml flat PCR tubes; 0.2ml 8-tube flat PCR strip; 96 well of 0.2ml half-skirted or no-skirted plate



Advanced Software Analysis

Advanced software analysis available either at machine touch screen to be run independently or available at PC version. Multiple analyses such as quantitative analysis, melting curve analysis, SNP genotyping, absolute/relative quantification and gradient analysis





Technical Data

Specifications	ViPlex Fluor96 Real-Time PCR System
Sample capacity	96 x 0.2ml (single block)
Consumables	Clear 0.2ml flat PCR tubes / 8-tube flat PCR strips / 96 well of 0.2ml half-skirted or no-skirted plate
Reaction volume	5 - 100µl
Light source	Full-spectrum LED
Detector	PMT – Photomultiplier Tube
Detection location	Top detection
Scan mode	Full plate scan or specified line scan
Ramp rate (max.)	≥6°C / s
Temperature uniformity	≤±0.1°C
Temperature accuracy	≤±0.1°C
Temperature range	4 - 105°C
Hot lid temperature	30 - 110°C (adjustable, default 105°C)
Gradient temperature difference	1 - 40°C
Fluorescence intensity detection repeatability	CV ≤3%
Temperature control	Block / tube
Multiplexing	Channel 1: FAM™/SYBR Green Channel 2: HEX™/VIC®/TET™/JOE™ Channel 3: TAMRA/NED™/Cy3™ Channel 4: ROX™/Texas Red® Channel 5: Cy5™ Channel 6: Cy5.5™
Excitation wavelength	400 - 800nm
Emission wavelength	500 - 800nm
Display	10-inch high-definition color touch screen
Operation system	PC software or touch screen machine software
Sample plate control mode	Automatic in/out, dual software detection, preset interface, automatic workstation can be connected
Communication ports	USB Type-A port x 2; USB Type-B port; RJ45 port
Power supply	DC15V 255W
Voltage	100-240V; 1000W 50/60Hz
Dimension (W x D x H)	320 x 525 x 420 mm
Weight	27kg

Ordering information:

Catalogue No.	Description
MC60966	ViPlex Fluor96 Real-Time PCR System, 96 well x 0.2ml block, 6 channels

