



# LABORATORY LINES

REAL TIME PCR SYSTEM



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A different accompaniment, at your service





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In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



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With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.





## Real Time PCR System

### Serie YR01869-1/2

#### Product Information

The YR01869-1/2 Real-Time PCR system is a high-performance benchtop instrument giving you greater control of your experiment data. It delivers reliability, sensitivity, and accuracy, which is optimized to enable the broadest range of quantitative PCR applications. In real-time quantitative PCR (qPCR), PCR product is measured at each cycle. By monitoring reactions during the exponential amplification phase of the reaction, users can determine the initial quantity of the target with great precision without involving post-PCR analysis such as gel electrophoresis and image analysis cabinets.

#### Innovative Optical Design

- ✓ Two channel (YR01869-1) and five channel (YR01869-2) fluorescent detection system with LED light source and high-resolution CCD.
- ✓ The optical system automatically collects data from all wells during data acquisition at the same time. The YR01869-1/2 can discriminate up to five targets in a single reaction well.
- ✓ The optical filter sets are designed to maximize fluorescence detection for specific dyes in specific channels.
- ✓ Compatible with different reagent and consumables

#### Precise Temperature Control

- ✓ Block utilizes most advanced Peltier-based technology with high amplification efficiency. Up to 6°C/s maximum ramp rate saves your valuable time dramatically. Two independent temperature control mode- block and tube, maximize control flexibility. Excellent temperature uniformity limits the variation between wells, ensuring the accuracy of low copy sample

#### Powerful Software

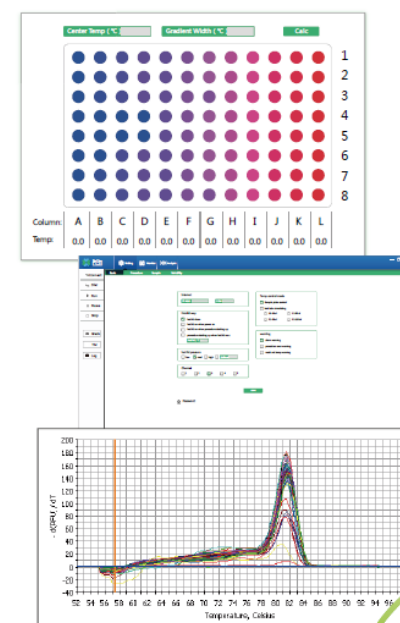
- ✓ YR01869-1/2 Manager Software accommodates individual needs with intuitive navigation and customizable settings. The software can be used for a variety of applications including absolute/relative quantification, melting curve (dissociation curve), etc. With integrated powerful visualization tools, the data is analyzed on machine directly

#### Humanization Design

- ✓ Advanced programming function like gradient and touch-down. The machine can be connected with PC through WI-FI or LAN. Software allows you to manage and monitor several YR01869-1/2 from your computer.
- ✓ Low noise, low energy consumption, long life-span

#### Ready to Run

- ✓ Factory calibrated for optical and thermal accuracy, the instrument is delivered ready for quick installation and use.



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## Real Time PCR System

Serie YR01869-1/2

### Operation System

Developed upon Linux operation system, and equipped with A8 CPU for better control experience

### Software

Independent software analysis module Intuitive software design enables easy experiment setup and an interactive system allows you to get results faster

### Robust construction

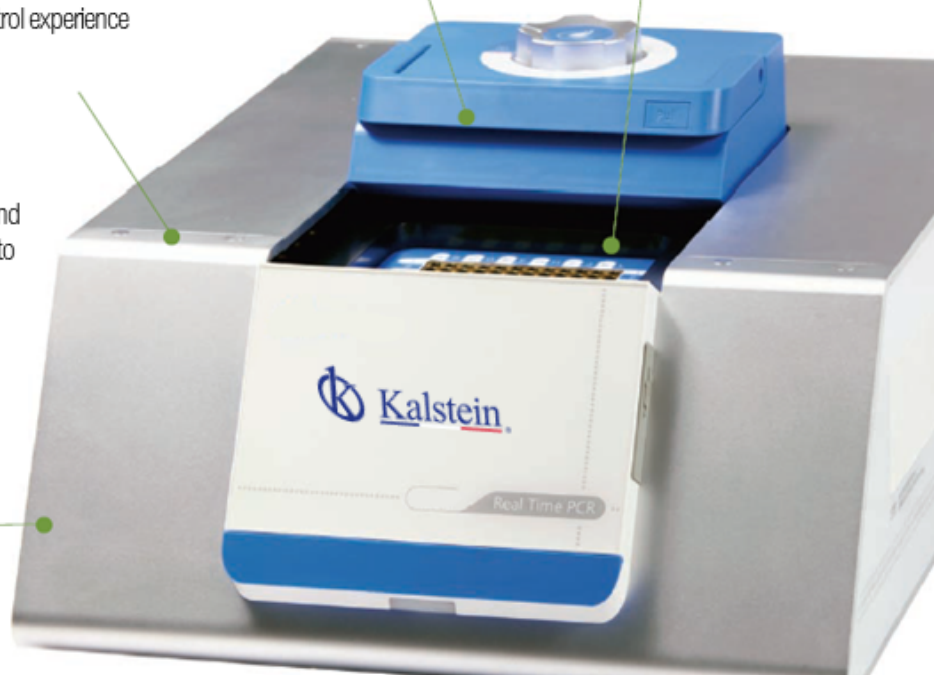
6mm aluminum alloy main body with solid construction, nice looking curves and fresh color. Adjustable footing designed for achieving balance easily

### Lid

3D style design with well pressure distribution and heat preservation Unique sliding track is convenient for sample operation

### Blocks

Compatible with 96-well plate, 12-well strip tubes, 8-well strip tubes. High quality peltier plates ensure amplification efficiency Standard gold-plating promotes heat conduction performance



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## Real Time PCR System

Serie YR01869-1/2

	YR01869-1	YR01869-2
Channel	2	5
Reactions per run	96	96
Block Format	96-well 0.2-ml	96-well 0.2-ml
Color Combinations	Up to 2	Up to 5
Light source	High brightness monochrome LED	High brightness monochrome LED
Detector	Highly sensitive cold light CCD	Highly sensitive cold light CCD
Detection dynamic range	10 <sup>2</sup> -10 <sup>10</sup>	10 <sup>2</sup> -10 <sup>10</sup>
Sensitivity	Down to 1 copy	Down to 1 copy
Reaction volume	15ul-100ul	15ul-100ul
Chemistry	All real-time PCR-based chemistries. Flexibility for chemistries with or without passive reference dye.	
Excitation source	White LED	White LED
Excitation filters/colors	Channel1: 470nm Channel2: 525nm -	Channel1: 470nm Channel2: 525nm Channel3: 585 nm Channel4: 625nm
Detection filters/colors	Channel1: 520 nm Channel2: 570 nm -	Channel1: 520 nm Channel2: 570 nm Channel3: 620 nm Channel4: 675 nm
Kits & Reagent	Channel1: FAM/SYBR Channel2: VIC/HEX/JOE/TET/TAMRA - -	Channel1: FAM/SYBR Channel2: VIC/HEX/JOE/TET/TAMRA Channel3: ROX/TEXRAD Channel4: CY5
Block Material	Peltier	Peltier
Accuracy	±0.1°C	±0.1°C
Temp Uniformity	±0.4°C (10 sec after reaching 95°C) ±0.2°C (10 sec after reaching 55°C)	±0.4°C (10 sec after reaching 95°C) ±0.2°C (10 sec after reaching 55°C)
Temp Range	0°C-100°C	0°C-100°C
Max. ramp rate	6°C	6°C
Gradient range	30°C-100°C	30°C-100°C
PC Operation system	WindowsXP/VISTA/Windows7/Window8	WindowsXP/VISTA/Windows7/Window8
X960 Operation system	linux	linux
CPU	A8	A8
Network	LAN /WIFI	LAN /WIFI
Multiple control	Support	Support
Applications Available	Gene Expression, Genotyping, Copy Number Variation, Protein Detection, MicroRNA, Pathogen Detection	
Size	W 592 x D 440 x H 280 mm	W 592 x D 440 x H 280 mm



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