Specification

Performance

Product model	SLAN®-96S			
Sample capacity	96 wells (12*8)			
Reaction volume	15 - 100μL (15-50μl recommended)			
Consumable	0.2ml PCR tubes, 8-well strips, 96-well plates			
Sensitivity	1 copy			
Linearity range	10^0-10^{10}			
Reproducibility	CV<0.5% across 48 wells			
Correlation coefficient	-0.99 to -1.00			
Dyes and probes	Ch1 FAM™/SYBR Green®	Ch2 VIC®/HEX™/JOE™/TET™		
	Ch3 ROX™/Texas Red®	Ch4 CY5™		

Thermal Unit

Temperature control unit	Semiconductor
Temperature control mode	Tube control / Block control
Temperature range	4~99℃
Max ramp rate	4.0℃/s
Temperature accuracy	±0.1℃
Temperature uniformity	±0.1℃
Hot-lid	30-108℃ (default 105℃, adjustable) electronic automatic hot-lid

Optical Unit

Light source	LED (free of maintenance)			
Detector	Photosensor			
Excitation	Ch1 470 nm	Ch2 530nm	Ch3 585nm	Ch4 630nm
Emission	Ch1 510 nm	Ch2 565nm	Ch3 620nm	Ch4 665nm
Custom-made channels[1]	Up to 6 channels, support 4-plex detection			

Software

Application	Absolute Quantification (AQ) , Positive/Negative
	Allelic Discrimination (TaqMan® endpoint method)
	Multiplex Melting Curve analysis , High Resolution Melting Curve analysis
Data export	Excel，CSV

Work Condition

Operation system	Microsoft ® Windows XP/Vista/7/8
Computer requirement	1GB RAM, 40GB HD, CPU 1.5GHz
Power supply	220V, 50HZ
Power consumption	850VA
Communication	RS232,USB
Dimensions	386mm×534mm×258mm （W×D×H）
Weight	18Kg

[1] If users would like to customize channels, please contact local distributors or the manufacturer for more information.

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SLAN®–96S
Real–Time PCR System

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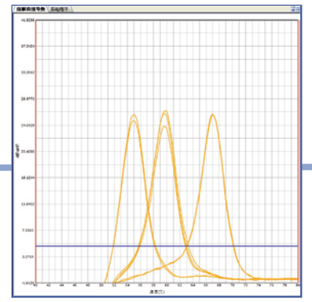
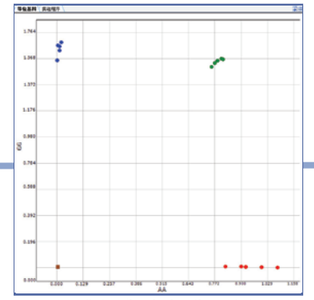

Derivative Melting curve


Allele discrimination plot

1 Innovative hardware design brings outstanding performance

- The patent spot-to-spot temperature compensation technology enables well-to-well uniformity with an accuracy of ±0.1℃;
- Long-lasting high-intensity LEDs which are reliable and maintenance-free;
- The unique lateral-capture signal collection technology results in better detection sensitivity and smooth amplification curves;
- Auto gain setting: free of background calibration and ROX reference calibration;
- Support FAM/HEX/ROX/Cy5 4-plex detection without crosstalk.

2 An ideal tool to perform HRM assays

- Advanced optical system enables signal acquisition with high sensitivity and efficiency;
- Tight temperature uniformity (within ±0.1℃) leads to reliable consistent HRM data;
- Support both Step scanning mode and Continuous scanning mode, complete HRM assay within 30min using continuous scanning mode;
- Sophisticated cluster algorithm assures complicated data analysis.

3 Accurate and reliable data

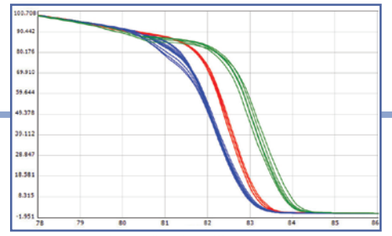
- Correlation coefficient: -0.999~-1.000
- Reproducibility: CV < 0.5%
- Sensitivity: detection of one starting template copy
- Broad dynamic range: 1 ~ 10E10 copies/ml
- High resolution: easily discriminate between 1000 and 2000 copies

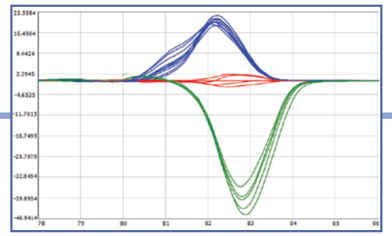
4 Powerful yet easy to use operation software

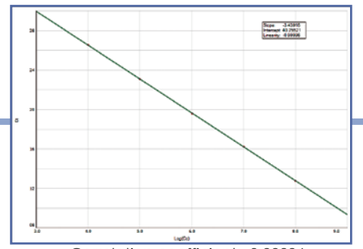
- User-friendly and intuitive user interface, easy to get started;
- Creatively introduce Project management to experiment workflow, no lengthy set-up requirements;
- Unique multi-tube mode combined with advanced rule functionality copes with complicated multi-targets experiment analysis;
- A broad range of analysis applications: Quantification/Qualification, Allelic Discrimination, Multiplex Melting Curve analysis, HRM;
- User-defined patient report editor;
- Simple import and export functions provide easy access to LIMS.

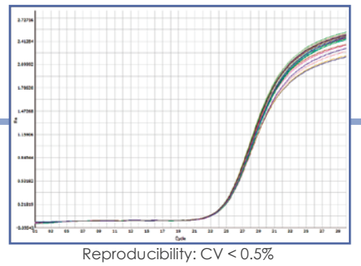
5 Support and service

- 18 months guarantee, convenient and fast after-sale service;
- Highly stable and durable, maintenance-free;
- High performance at an affordable price;
- Low noise, low power consumption, robust, compact and elegant;
- Open platform： support almost all of universal PCR reagents and plastics.


Normalized melting curve


Melting curve difference plot


Correlation coefficient: -0.99996


Reproducibility: CV < 0.5%

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