



# Real Time PCR LRTP-A3 Series

## Real Time PCR LRTP-A30

Real Time PCR LRTP-A30 is a portable unit comes with sample capacity of 16×0.2 ml (2×8 well, double block), offers emission wavelength ranges from F1: 520 to 540 nm and factory calibrated dyes of F1: FAM/SYBR Green I. Adopted with American Marlow customized Peltier module, double channels and double 8-wells blocks design with analysis software that can run two different design at a same time. Built in with high sensitivity photoelectric detector, 7 inch color TFT touch screen display of 1280×800 pixels with win 10 operating system and long life LED excitation. Equipped with powerful software analysis function such as, genotyping, melting curve, absolute and relative quantification.

## Real Time PCR LRTP-A31

Real Time PCR LRTP-A31 adopts American Marlow customized Peltier module, double channels and double 8-wells blocks design with analysis software that can run two different design at a same time. It is a portable unit comes with sample capacity of 16×0.2 ml (2×8 well, double block), offers emission wavelength ranges from F1: 520 to 540 nm and F2: 540 to 580 nm and factory calibrated dyes of F1: FAM/SYBR Green I and F2: HEX/VIC/JOE/TFT. Equipped with powerful software analysis function such as, genotyping, melting curve, absolute and relative quantification. Built in with high sensitivity photoelectric detector, 7 inch color TFT touch screen display of 1280×800 pixels with win 10 operating system and long life LED excitation.

### FEATURES :

- 7 inch color TFT touch screen display with 10 operating system for ease of monitoring various parameters
- Equipped with environmental protection, energy saving and LED light source
- Adopts the same acquisition optical path to improve the repeatability
- Easy to carry, light weight and compact design
- Provide flash memory of 20 G, saves experimental data of upto 40000 pieces
- Built in with back reaction block, side scan technology and electromagnetic lock cover technology
- Offers long service life and free maintenance
- Integrated with front shutdown button to secure file data

### APPLICATION :

Real Time PCR is widely used in scientific research in biological laboratories, rapid diagnosis of disaster and epidemic diseases, inspection and quarantine in the field of food safety. It is suitable to use for real time detection in breeding farm, pasture, water sources and forest farm.



## SPECIFICATION :

Model. No	LRTP-A30	LRTP-A31
Sample Capacity	16×0.2 ml (2×8 well, double block)	16×0.2 ml (2×8 well, double block)
Consumable	Clear 0.2 ml PCR tube/ <del>8</del> tube strips	Clear 0.2 ml PCR tube/ <del>8</del> tube strips
Reaction Volume	10 to 100 µl	10 to 100 µl
Excitation Wavelength	460 to 550 nm	460 to 550 nm
Emission Wavelength	F1: 520 to 540 nm	F1: 520 to 540 nm F2: 540 to 580 nm
Display	7 inch color TFT touch screen , 1280×800 pixels	7 inch color TFT touch screen , 1280×800 pixels
Temperature Control Technology	Marlow customized Peltier allow 1.000.000 cycles	Marlow customized Peltier allow 1.000.000 cycles
Temperature Range	0 to 100°C (Resolution: 0.1° C)	0 to 100°C (Resolution: 0.1° C)
Maximum Ramp Rate	6°C/s	6°C/s
Temperature fluctuation	± 0.1°C	± 0.1°C
Uniformity	± 0.25°C	± 0.25°C
Accuracy	± 0.25°C	± 0.25°C
Hot Lid Temperature	30 to 115°C (Adjustable, default 105°C)	30 to 115°C (Adjustable, default 105°C)
Temperature Control	Block/Tube	Block/Tube
Factory Calibrated Dyes	F1: FAM/SYBR Green I	F1: FAM/SYBR Green I F2: HEX/VIC/JOE/TFT
Excitation	Long life LED	Long life LED
Detection	High sensitivity photoelectric detector	High sensitivity photoelectric detector



Dynamic Range	1 to 10 <sup>10</sup> copies	1 to 10 <sup>10</sup> copies
Sensitivity	1 Copy	1 Copy
Feature Function	Absolute /Relative Quantification, melting curve, genotyping	Absolute /Relative Quantification, melting curve, genotyping
Date Export Formats	Excel, CSV, txt	Excel, CSV, txt
Printing	Report can be printed (Optional USB thermal printer)	Report can be printed (Optional USB thermal printer)
Communication Parts	WIFI /USB 2.0	WIFI /USB 2.0
Power	DC 15 V, 250 W	DC 15 V, 250 W
Dimension (L×W×H)	300×267×198 mm	300×267×198 mm
Net Weight	5.5 kg	5.5 kg

