

# BioQuant-96, real-time PCR detection system

## DESCRIPTION

BioQuant-96 is the newest product of Biosan Molecular diagnostic product family.

It has adopted innovative thermoelectric refrigeration technology, brand-new light source and light path design. Detection from the top allows using different consumables - 0,2 tubes, 8-tube strips and semi-skirted and non-skirted 96-well PCR plates. The unique constant current power and 6-zone independent temperature control method ensure more rapid, correct and stable fluorescence quantitative analysis, while maintaining its excellent performance in lowest possible energy consumption.

Device is available in 5-channel and 6-channel configuration. Meanwhile, it has been added with functions including independent temperature control, low temperature storage of sample at 4°C and FAST mode for more faster cycling (confirm reagent compatibility with fast mode).

BioQuant-96 is comprehensively realizing automatic gain setting and improving user experience.



## CAT. NUMBER

BS-050110

230VAC 50/60Hz Euro plug

## SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Sample capacity            | 0.2ml single tube (transparent cap), 96×0.2(0.1)ml Plate (transparent cap), 8-strip tubes (transparent cap) |
| Dynamic range              | 1~10 <sup>10</sup> copies   |
| Excitation wavelength      | 300-800 nm  |
| Emission wavelength        | 500-800 nm  |
| Channels                   | 5   |
| Temperature setting range  | 4 ~99.9°C (increment: 0.1°C)  |
| Heating/cooling rate       | Max 6.0 °C/s / 5.5 °C/s   |
| Temperature accuracy       | ≤±0.1°C   |
| Temperature fluctuation    | ≤±0.1°C   |
| Temperature uniformity     | ≤±0.3°C   |
| Temperature control mode   | Block/6-zone gradient   |
| Sample volume              | 1 ~ 100 µl  |
| Gradient temperature range | 1 ~ 30°C  |
| Hot-lid temperature range  | 30 ~110°C (adjustable default: 105°C, Automatic Hot-lid)  |
| Repeatability              | 5%  |
| Scan mode                  | Full plate simultaneously   |
| Program                    | Max. 20 segments for each program, max. 99 cycles   |
| Continuous operation       | +   |
| Scan period                | 5.5 s   |
| Software                   | BioQuant-96 Software  |
| Operating system           | Windows 7/8/10/11   |
| Software required          | Microsoft Excel   |
| Minimum PC requirements    | Built-in touchscreen PC / Memory: 512MB, Hard Disk:10GB, CPU: Pentium® 4, Virtual Memory: ≥1000MB           |
| Nominal operating voltage  | 100-240V; ~50/60Hz  |
| Power consumption          | 600W  |
| Dimensions (W×D×H)         | 490×290×391 mm  |
| Number of sockets          | USB adapter, Bluetooth adapter  |
| Interface                  | WIN 10 on built-in touchscreen PC   |