VITANIX
future of healthcare

# VITANIX REAL TIME PCR
# ROTOR AMPLIX-RT

MADE IN SLOVENIA

CE

# REAL TIME PCR

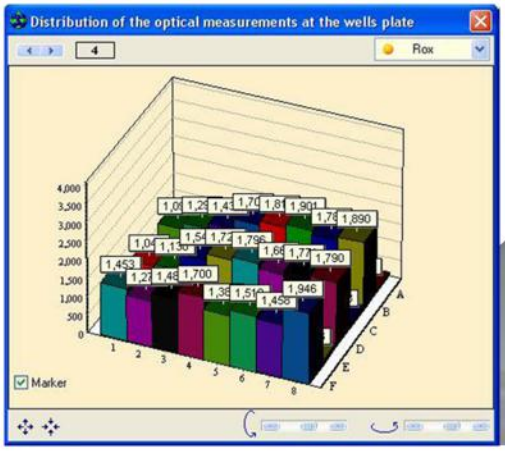
## ROTOR AMPLIX-RT

### OVERVIEW

ROTOR AMPLIX-RT is fully automated real-time PCR devices for robotic workflow setups support you in streamlining your application even further. The ROTOR AMPLIX-RT product guarantees well-founded real-time results as it benefits from peerless temperature control precision in the sample block regardless of the number of samples used.

## Technical Specifications

- Powerful – ideal real-time PCR signals
- Comfortable – easier and universal operating concept
- Unrivalled – fast and precise results
- Intuitive Colour display
- Detector CCD matrix camera
- Temperature accuracy (°C) +/– 0.2
- Temperature accuracy (°C) 0.1
- Thermal unit temperature range (°C) from 0 to 100
- Channels of measuring fluorescence 4 & optional *5
- Spectral range (nm) Excitation and detection for each channel
  580/30 – 620/30 630/20 – 660/20,687/20 – 731/30,470/40 – 515/30 ,530/20 – 560/20
- Multipurpose flexibility and high sensitivity
- Board dynamic range of detection achieved by employing multiple exposure method, which takes the optimization of signal registration conditions to a whole new level, greatly simplifying or even eliminating the need for photometric settings.
- Real-time quantification, melting curve analysis, single nucleotide polymorphisms (SNPs) genotyping biocenosis and gene expression analysis among key applications
- Light emitting diodes (LED) as a light source.
- Automated Diagnostic PCR System
- Sample volume: 14-100 µl
- ROTOR AMPLIX-RT can efficiently perform Qualitative and Quantitative Test assay
- Amplification and detection are automatically done with efficient Performance
- Adapted for integration with laboratory information system LIS
- Active heating /cooling device of the thermo block Peltier elements
- Performance and flexible separate tubes and strips can be applied , and standard 96-well plates as expendables, Optional *384-well microplates Available
- Excitation source LED
- Power Sources 220V, 50HZ AC




Distribution of optical data over the thermal block

Appearance of the thermal block matrix in extended position

## Technical Parameters

| | |
|---|---|
| Thermal block format | 96 test tubes of 0.2 ml (8x6) |
| Test tube type | 0.2-ml test tubes for PCR (individual, in strips, 8 pieces each) |
| Range of thermal block temperature control | 0 °C...100°C |
| Resolution of temperature setting | 0.1°C |
| Absolute accuracy of temperature maintenance, not worse than | ±0.2°C |
| Nonuniformity of thermal block temperature not more than | ±0.3 °C |
| Average heating rate of the thermal block within temperature range of 4...99 °C | 3.3 °C /s |
| Maximum heating rate of the thermal block within temperature range of 4...99 °C | 3.0 °C/s |
| Average cooling rate of the thermal block within temperature range of 99....55 °C | 2.1. °C /s |
| Maximum cooling rate of the thermal block within temperature range of 99....55 °C | 1.9 °C /s |
| "Hot cover" temperature | 105°C 1°C |
| Actuating device of the thermal block | Peltier elements |
| Excitation source | Light-emitting diode |
| Detector | CCD (charge coupled device) -matrix |
| Number of the fluorescence measurement channels | 5 |
| Excitation/detection wave length | 470/525, 532/570, 585/633, 633/670, 690/750 ** |
| Threshold sensitivity of each of the channels for solutions of standard fluorophors | 0.05x10E-12M |
| Computer interface | USB 2.0 High-speed |
| Power consumption | Not over 550 W |
| Overall dimensions, WxDxH | 21 x 54 x 54 cm |
| Preparation time after switching-on | Not over 5 minutes |
| Weight | 27 kg |

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