



# TurboQ

## Real-Time PCR System Ideal for Multiplex and Routine PCR Applications



### 4 Optical Channels

Detects up to 4 targets in one well



### CCD-Based Detection System

The entire plate can be detected at once to eliminate reaction-time differences



### Motorized Plate Carrier Tray

Plate in/out with a simple click, enables automation integration in the future



### +/- 0.25°C Block Temperature Control Accuracy

Ensures experiment condition stability and eliminates uncertainty



### Software with Complete Analysis Functions

Functions included:

- Absolute Quantitation
- Relative Quantitation
- Allelic Discrimination
- Melting Curve
- HRM

No need to purchase extra analysis modules

# Specifications

## Sample Block

|                |                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Block   | Fixed 96-well, compatible with 0.1 mL or 0.2 mL PCR tubes (specify when ordering), tube strips, and 96-well plates (non-skirted or semi-skirted) |
| Sample Volumes | 10 - 100 $\mu$ l                                                                                                                                 |
| Plate Loading  | Motorized plate carrier tray                                                                                                                     |

## Block Temperature

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Block Temperature Range             | 25 - 99 $^{\circ}$ C                                                                                                                      |
| Peak Block Ramp Rate                | 6.6 $^{\circ}$ C/sec                                                                                                                      |
| Temperature Accuracy                | $\pm$ 0.25 $^{\circ}$ C (35 $^{\circ}$ C – 95 $^{\circ}$ C) of set point / display temperature<br>Measured at 3 minutes after clock start |
| Temperature Uniformity Across Block | $\pm$ 0.5 $^{\circ}$ C (30 seconds after clock start)                                                                                     |

## Gradient Temperature

|                                      |                           |
|--------------------------------------|---------------------------|
| Gradient Operative Temperature Range | 60 - 99 $^{\circ}$ C      |
| Gradient Temperature Difference      | Max. span 25 $^{\circ}$ C |

## Heated Lid

|             |                  |
|-------------|------------------|
| Heating Lid | 105 $^{\circ}$ C |
|-------------|------------------|

## Optics

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Excitation Source | Tungsten-halogen lamp                                                     |
| Detection Module  | CCD camera                                                                |
|                   | 4 channels                                                                |
| Detection Channel | Ch1: FAM, SYBR Green; Ch2: HEX, VIC, JOE<br>Ch3: ROX, Texas Red; Ch4: Cy5 |

## Environment

|                       |                       |
|-----------------------|-----------------------|
| Operating Temperature | 15 - 30 $^{\circ}$ C  |
| Operating Humidity    | RH: 85% or less       |
| Storage Temperature   | -10 - 60 $^{\circ}$ C |

## General

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| PC Operation System             | Windows 7 or higher                                  |
| Footprint Dimensions(H x W x D) | 567 mm x 354 mm x 455mm                              |
| Weight                          | 35 kg                                                |
| Power supply                    | 110/230 V, frequency 50/60 Hz, 1500W                 |
| Fuse                            | 1 x fuse, 10A for 110VAC power / 5A for 220VAC power |

Specifications are subject to change without prior notice.

## Ordering Information

|         |                                     |
|---------|-------------------------------------|
| 76-110  | Real-Time PCR TurboQ 110V Ch1,2,4,5 |
| 76-110E | Real-Time PCR TurboQ 220V Ch1,2,4,5 |

Authorized Distributor



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