

**The Thermo Scientific PikoReal Real-Time PCR System is a big instrument in a tiny box. It offers excellent qPCR performance to a price point where you do not have to share.**

## Thermo Scientific PikoReal Real-Time PCR System



### Real-Time, Any Time – Now within your reach!

The Thermo Scientific PikoReal Real-Time PCR System is light, quiet and has the smallest footprint in the market, thereby making it ideal for personal use. The system is available in two different configurations: PikoReal<sup>®</sup> 24-well system for use with 24-well Piko PCR Plates and standard 8-well strips, and PikoReal 96-well system for use with 96-well Piko PCR plates. Piko PCR Plates are only ¼ the size of a conventional microplate, but they still maintain industry standard spacing and sample capacity. They are compatible with standard multichannel pipettes, reagent dispensers and automated liquid handling systems. Due to its small size, extremely low energy consumption and durable design, PikoReal system is also suitable for field applications.

### Superior thermal performance

The unique block design (patent pending) of PikoReal system combined with precise temperature control brings confidence to your qPCR. The superior thermal performance ensures that your quantification results are reliable and reproducible. Five optical channels facilitate multiplexing.

### Stand-alone or PC control

PikoReal system is controlled by PikoReal Software, which allows you to remotely monitor any qPCR experiment on-line from your own computer. Alternatively, you can save the qPCR protocol on a USB stick and load it on to the PikoReal instrument for stand-alone use. PikoReal software includes modules for absolute and relative quantification, melting curve analysis and genotyping (a module for HRM analysis will be available in 2011). Advanced algorithms provide effortless data normalization without the need for an external reference dye.

### Reduced plastic and reagent consumption

The unique design of the heating block and the small plate format allow significant savings both in plastics and reagent consumption. This reduces costs of your research and produces less plastic waste.

Not available in US, Canada, Brazil, UK, Germany, Austria, Switzerland, Italy, Spain, France, Belgium, the Netherlands, Luxemburg, Denmark and Sweden.

## Thermo Scientific PikoReal Real-time PCR System

Thermal Block	
Block formats	24-well, 96-well (not interchangeable)
Sample volume	10 – 50 µl (PikoReal 24), 5 – 20 µl (PikoReal 96)
Consumables	24-well or 96-well Piko PCR Plate
Max heating rate	>5°C/sec
Max cooling rate	4.5°C/sec
Temperature range	4 – 99.9°C
Temperature accuracy	±0.2°C
Temperature uniformity	±0.3°C at 95°C

Heated lid	
Temperature range	30 – 110°C
Control	Automatic temperature and pressure setting

Optics		
Excitation	5 LEDs	
Excitation range	475 – 640 nm	
Detection	CCD	
Detection range	520 – 740 nm	
Detection channels:		
Excitation (nm)	Emission (nm)	Pre-Calibrated Dyes
475–500	520–550	FAM, SYBR Green
515–535	557–590	HEX, Yakima Yellow
570–590	615–650	ROX, Texas Red
600–640	666–740	Cy 5
475–500	520–590	SYBR Green for HRM, Single plex FAM, SYBR Green
Multiplex	Up to 4 targets	
HRM	Available 2011	
Dynamic range	10 orders of magnitude	
Sensitivity	1 copy	
Scan time for 4 multiplexing channels	<10sec	

Software	
Analysis modes	Absolute quantification Relative quantification Melt curve analysis Allelic discrimination

System	
Operating systems	Windows XP, Windows 7
Communication	Ethernet, up to 10 instruments can be operated from a single PC
Power usage	200W maximum
Dimensions (W x D x H)	300 x 230 x 310 mm
Weight	10 kg

## Ordering Information

Product code	Description
TCR0024	PikoReal 24 Real-Time PCR System
TCR0096	PikoReal 96 Real-Time PCR System

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*Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics only under Canadian Patent 1,339,653, U.S. Patent 5,475,610 (claims 160-163 only) and non-U.S. counterpart claims as applicable.  
Lit code: PB\_2010\_78\_v2*

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