

LightCycler® PRO System

Technical specifications



LightCycler® PRO* System

General characteristics

Diagnostic applications	<ul style="list-style-type: none"> • Qualitative PCR • Quantitative PCR • Tm Calling • Melt Curve Genotyping
Labeling	IVD marked** RUO# marked
Reaction volume	5 µl-20 µl (384-well) 10 µl- 100 µl (96-well)
Internal computer	Intel® Core™ i5
Software features	Analysis package, run management, plate management, orders, results, user management, system administration, settings

* The LightCycler® PRO System is in development and not available for sale.

**Pending inclusion on the Australian Register of Therapeutic goods (ARTG)

#For Research Use Only. Not for use in diagnostic procedures.

General characteristics

Automation	<ul style="list-style-type: none"> • Automatic run/start when loading a valid plate and existing plate setup • HL7 based host interface to a customer LIS (Laboratory Information System) • Barcode assisted scanning of multi-well plates
Remote monitoring	Remote access to host computer for process monitoring and reviewing data
Data management	Compatibility with 21 CFR Part 11
Interfaces	<ul style="list-style-type: none"> • 6 x USB 2.0 on the back of the device • 2 x USB 2.0 on the front of the device • 1 x HDMI for external display on the back of the device • 1 x Ethernet port on the back of the device

Environmental requirements

Temperature control	Peltier based heating/cooling from 20°C-99°C Integrated vapour chamber for optimal temperature distribution
Heating rate	96-well-block: 4.4 °C/s 384-well-block: 4.8 °C/s
Filter	7 Excitation (nm) 7 Emission (nm)
Detector	CMOS Camera

Dimensions and weight

Instrument dimensions	45.3 x 54.3 x 50.4 cm (W x H x D)
Instrument weight	52.5 kg

Power supply

Voltage	100-240 VAC +/- 10%
Line frequency	50/60Hz +/- 10%
Power source recommendation	White LED lamp source 2.2

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