

Genie® II

Genie® II, from OptiGene Ltd, is a compact, lightweight, and robust instrument suitable for use in the field or laboratory. It was specifically designed to run any isothermal amplification method that employs target detection by fluorescence measurement. The device has two heating blocks, each of which takes a single 8-microtube strip that was specially designed for the instrument. The tubes feature locking caps that do not open after a run, so preventing any contamination. The blocks can be controlled independently or run together for processing up to 16 samples. The instrument boasts low power requirements, and includes a rechargeable Lithium-Polymer battery that can keep it running for a full working day.

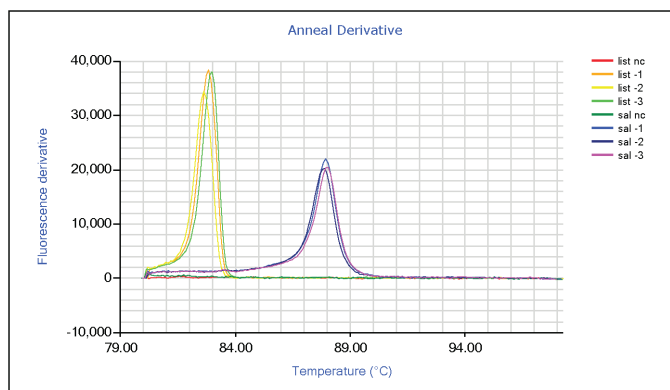
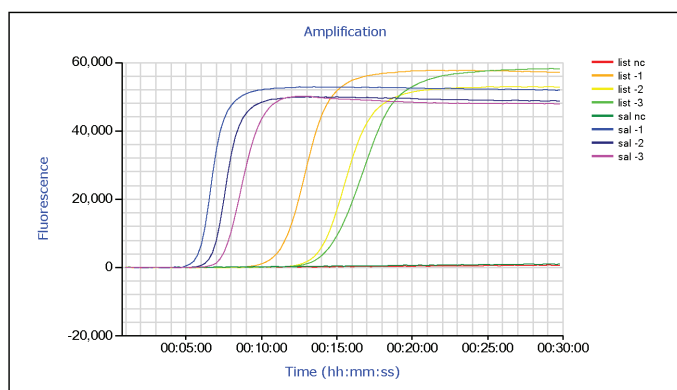
Genie® II is controlled from a large TFT LCD display with resistive touch screen that can be operated while wearing protective gloves. From this interface, the instrument can be set to run any thermal profile required for isothermal amplification. Real-time temperature and fluorescence data is displayed graphically and in real-time during a run, and all of the data is held in the instrument's large internal FLASH memory. This data is permanently stored and can be reviewed on the high-resolution display at any time after the run has finished or uploaded to a PC via a USB link.

Benefits:

- Purpose-designed sophisticated instrument that supports any isothermal DNA / RNA amplification method employing fluorescence readout
- Stand-alone operation from the integral 7" high-resolution touch screen with no need for a host computer
- Two heating blocks, each taking a single strip of eight 150 µl microtubes, that can be run together or completely independently - up to 16 samples
- Highly accurate temperature control up to 100°C in 0.5°C increments with the ability to run a thermal gradient along each block (assay optimization)
- High capacity internal data store for saving run data and experiment protocols
- Fitted with internal Li-Po battery that allows a full day's operation away from a mains electricity supply and rapid charging
- Rapid Isothermal Amplification
- Result confirmation by anneal step
- Small footprint - 20cm (H) X 21cm (D) X 30cm (W)
- Compact, portable and robust - lightweight: 2 kg (4.4 lb)
- Mains or battery-powered
- Easy access to data via USB interface
- Use independently via touchscreen or link to a computer via a USB cable



Genie® II Technical Specifications	
Sample Number	16 wells (2 x 8 strips)
Sample Volume	10 µl to 150 µl
Touchscreen	High-brightness TFT / LCD module (800x480)
Heater technology	Ceramic substrate with resistive coating
Cooling method	Forced convection
Temperature sensor	High-precision thermistor
Temperature control type	Multi-zone independent digital PID
Temperature control range	Ambient 110°C
Temperature accuracy	±0.1°C
Temperature uniformity across block	±0.2°C
Temperature gradient	Programmable up to 8°C
Optics Source	470 nm LED with high-quality interference filter 40 nm band pass
Detection Filter	510 nm longpass photodiode high-quality interference system
Operating temperature	10°C - 40°C
Approvals	CE
Power consumption (maximum)	150W
Dimensions	20cm (H) X 21cm (D) X 30cm (W)
Weight	2kg / 4.4 lb



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