



croGENE Real-Time PCR System

croGENE Real-Time PCR System is a high-performance, open-platform instrument designed for rapid and reliable molecular diagnostics. It supports both qualitative and quantitative analysis and is optimized for use with GeneProof PCR kits.

The system features advanced temperature control and a high-sensitivity optical system to ensure accurate and consistent results. With capacity for up to 96 samples per run, it is well-suited for use in both diagnostic and research laboratories.



Features and Benefits

- **Advanced Optical System** – 6 fluorescence detection channels; optical module requiring no reference or calibration.
- **High-Throughput Efficiency** – Scans all 96 samples in just 7 seconds, significantly reducing testing time and improving laboratory workflow.
- **Fast and Precise Temperature Control** – Heating rate up to 6.1 °C/sec, ensuring reliable performance with uniform results.
- **Power-off Protection** – Automatically recovers the experiment during power failures, preventing data loss, reagent waste, and ensuring uninterrupted testing.
- **Standalone Operation with an Intuitive Touchscreen Interface** – 10.4" display for user-friendly navigation.
- **Data Connectivity and Management** – Supports LIS connectivity, upload and download through USB flash drive, data export (CSV, Excel, TXT), direct PC control and 1000 results can be stored in the instrument.

Channel 1	Channel 2	Channel 3	Channel 4	Channel 5*	Channel 6
<ul style="list-style-type: none">• FAM• SYBR Green I• SYTO 9• Eva Green• LC Green	<ul style="list-style-type: none">• HEX• TET• VIC• JOE	<ul style="list-style-type: none">• Texas Red• ROX	<ul style="list-style-type: none">• Cy5	<ul style="list-style-type: none">• Alexa Fluor 680	<ul style="list-style-type: none">• FRET

* Cy5.5 can be detected through Channel 5 as an alternative to Alexa Fluor 680.

Trust GeneProof for targeted molecular diagnostic solutions.

Questions? Contact sales@geneproof.com



Technical Specifications

Capacity and Consumables

Max sample capacity	96 samples
Reaction volume range	0-100 µl
Consumables	<ul style="list-style-type: none"> • 0.2ml 96-well plates, 8-tube strips, single tubes • Clear, frosted and white

Optical System

Light Source	<ul style="list-style-type: none"> • Long life and maintenance-free LED light • Excitation and scanning from the top
Fluorescence Channels	6
Excitation Range	465-680 nm
Detection Range	510-730 nm
Fluorescence Scanning Time	7s (scanning of all 96 wells)
Sample Dynamic Range	From 1 to 10 ¹⁰ copies

Thermal Block

Heating Method	Peltier
Block Temp. Range	0-100 °C
Maximum Heating rate	>6.1 °C/s
Maximum Cooling Rate	>5.0 °C/s
Temperature Uniformity	±0.1 °C
Temperature Accuracy	≤0.1 °C

SW Features

- Qualitative Analysis
- Absolute Quantification
- Relative Quantification
- Genotyping Analysis
- Endpoint Analysis
- Melt Curve Analysis
- High Resolution Melting
- Thermal Gradients (Gradient Range: 1-40°C)

Connectivity

LIS connection; USB drive connectivity; data export in CSV, Excel and TXT format; direct control from PC

Others

Certificate	CE IVD (IVDR)
Weight	30 kg
Instrument Dimension (mm)	355 x 480 x 485 (WxLxH)

PCR Kits

Instrument designed for use with most PCR Kits as validated by the laboratory.
Already verified kits include:



Bloodborne Infections



Antibiotic Resistance



Sexually Transmitted Infections



Neuroinfections



Respiratory Infections



Thrombotic Mutations



Immunocompromised/Transplant