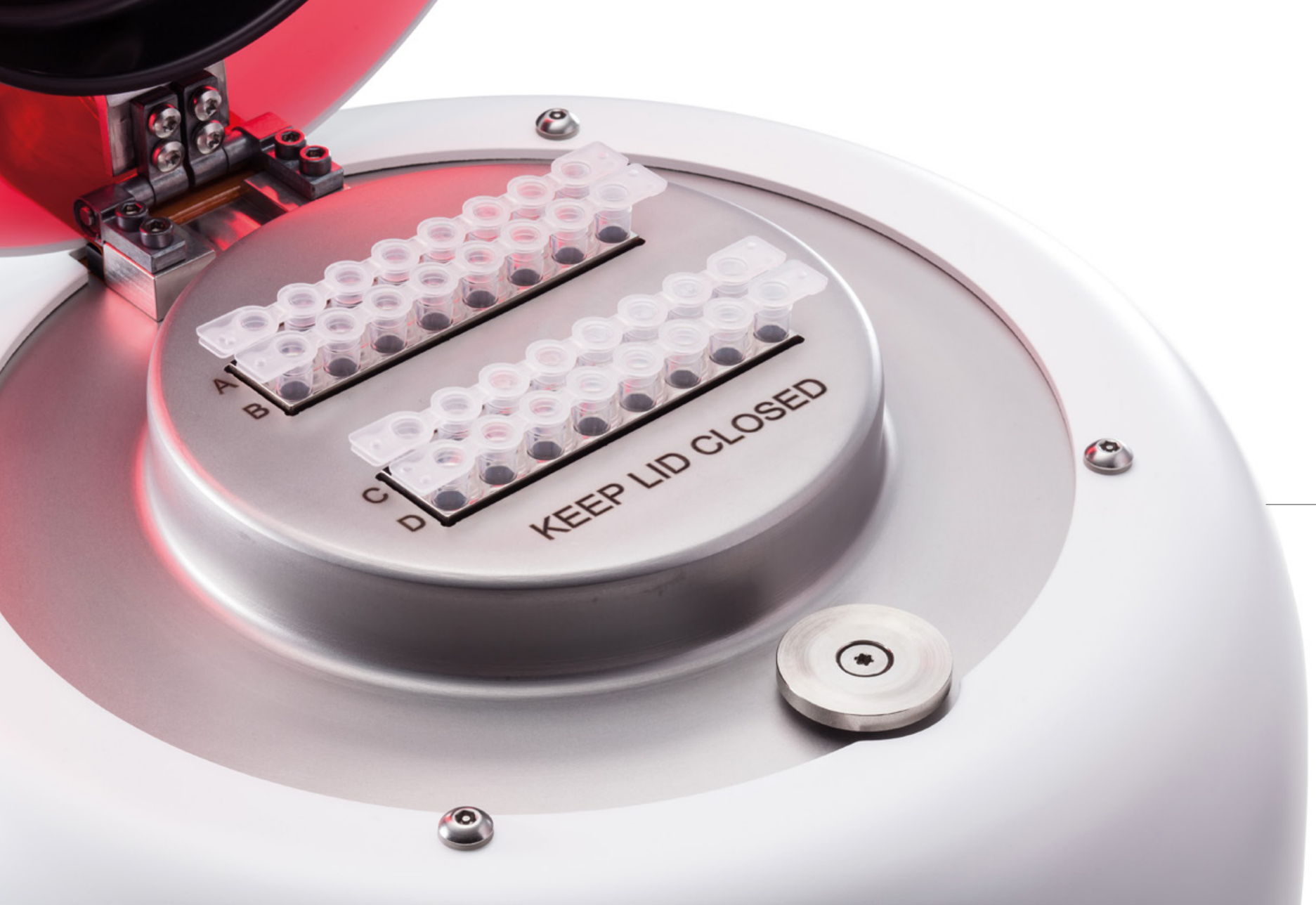
MyGo | Pro

PERFORMANCE MADE EASY

REAL-TIME PCR



MyGo Pro

The MyGo Pro real-time PCR instrument provides unmatched performance in a convenient format. Novel Full Spectrum Optics deliver 120 optical channels of fluorescence data from every tube in parallel, with no moving parts, for reliable multiplex PCR. High performance Peltier elements, and solid silver blocks, provide both speed and world leading thermal uniformity. The result is rapid, precise, quantitative PCR and melting point analysis. Advanced algorithms combined with an intuitive user interface support a broad range of applications, operating systems and connection options. Performance made easy...

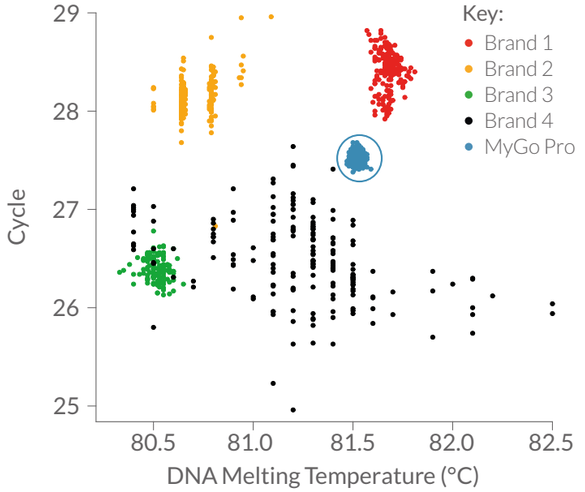
PRECISION AND PERFORMANCE

The MyGo Pro demonstrates superior intra-run and inter-run analytical precision in DNA quantification and melting point analysis.

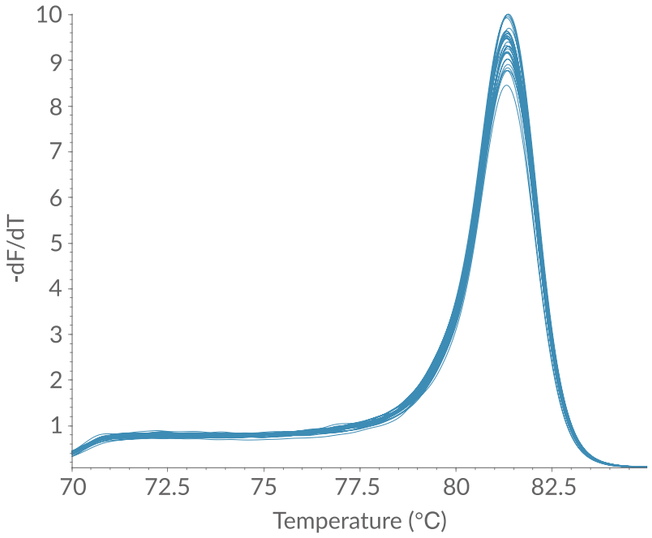
Users can now address biological phenomena with subtle effects on gene expression, or pathogen levels, for example discriminating 10% differences in transcript concentrations.

For users performing HRM based analysis of genetic variants, the combination of thermal control, optical data quality and HRM data analysis of the MyGo Pro system provide compelling functionality. The system can discriminate all classes of SNP, including Class 4 SNPs via HRM.

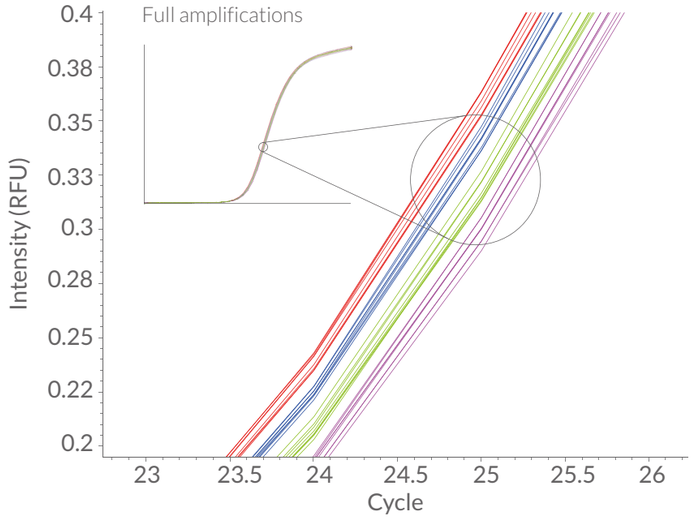
192 replicate PCRs performed in each of five different qPCR systems, including the MyGo Pro (circled).



32 replicate reactions, amplified and melted, standard deviation of Tm 0.020°C. Input template 10,000 copies of viral DNA



8 replicate PCR amplifications from 5ng (red), 4.5ng (blue), 4.05ng (green) and 3.65ng (purple) of human cDNA.



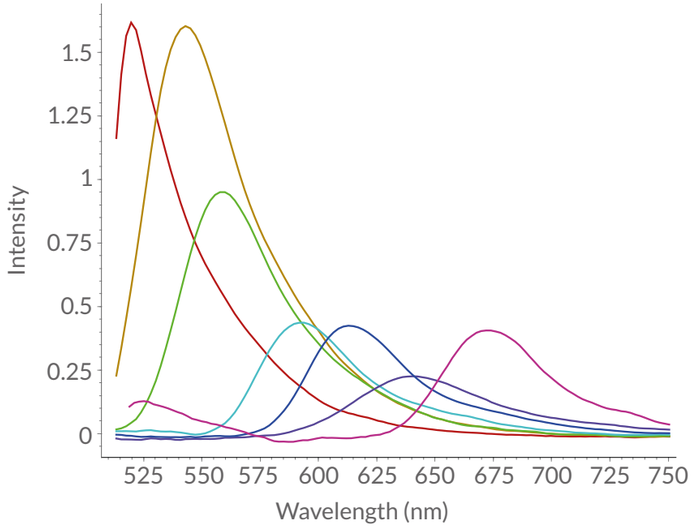
MULTIPLEX WITH FULL SPECTRUM OPTICS

Novel Full Spectrum Optics provide 120 channels of wavelength dependent optical data from every well every time. No other qPCR system offers this number of optical channels.

Full Spectrum Optics, combined with advanced matrix deconvolution technology, enable the simultaneous analysis of at least 7 different targets in a single reaction, each monitored with a different colour of fluorescent label.

The MyGo Pro comes pre-calibrated for 20 different fluorescent labels, and the software enables users to use any dye with an emission maximum between 510nm and 750nm. No other qPCR system provides the user with this level of flexibility.

7
different targets in a single reaction



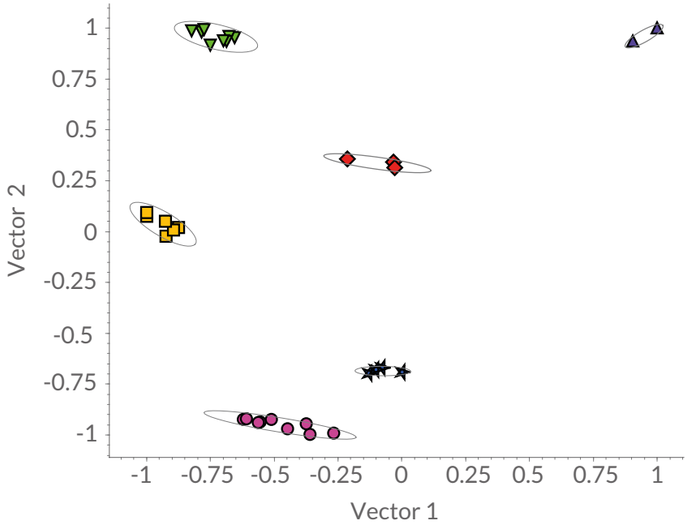
Fluorescence emission of 7 different hydrolysis probes acquired during qPCR

EASY ANALYSIS

The MyGo Pro system comes with easy-to-use software, and robust, high performance algorithms provide accurate results from complex data.

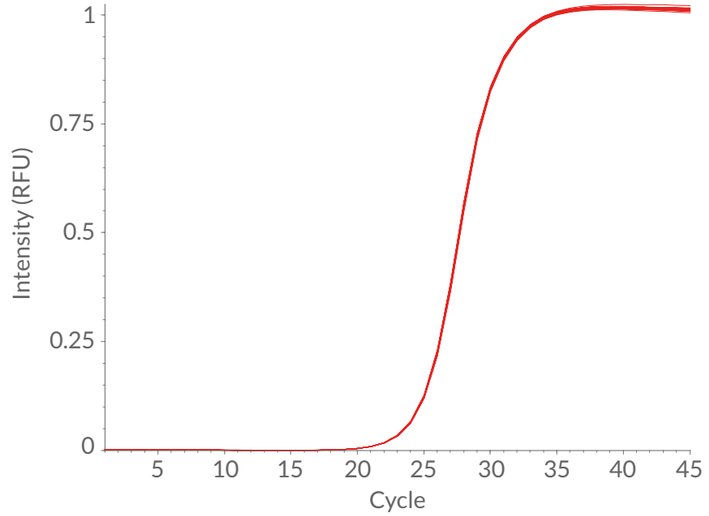
Automated analysis of complex HRM data makes this powerful technique more accessible to non-experts, and minimises operator-dependent variability in data analysis.

Automated report generation makes life easier for service providers, and users operating within GLP quality systems.



32 human DNA samples classified into 6 different genotypes by automatic clustering of HRM data.

16 replicate PCR amplifications performed in 33 minutes. 45 cycles of 95°C (10 seconds), 55°C (10 seconds). Input template 10,000 copies of viral DNA.



RELIABILITY

5 yr extended warranty

The MyGo Pro has been designed to last, with very few moving parts, made and tested to exacting standards. The result is a highly reliable instrument, which comes with the option of a 5 year extended warranty.

SPEED

With heating rates of 5°C per second and cooling rates of 4°C per second the MyGo Pro is one of the fastest systems available. No other system matches this speed with convenient-to-use disposables. The system demonstrates excellent quantitative precision and speed, with 45 cycles of PCR in 33 minutes. Typical qPCR systems take much longer than this to deliver results.

COMPATIBILITY

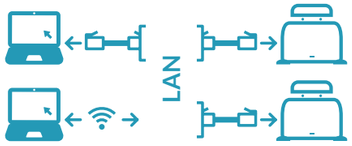
The MyGo Pro software can be installed on Mac OS X, Windows and Linux operating systems. Use your computer and your choice of operating system.

CONNECTIVITY

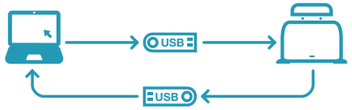
The MyGo Pro software does not require a dedicated computer, so users do not need to find the space, or money, for an additional computer to run the system. In addition, the software enables the user to control multiple instruments, and simultaneously analyse multiple runs, with one computer.

MyGo Pro Connection Modes

1. Direct network connection



2. Local area network connection



3. USB drive connection

SPECIFICATION

Dimensions	W 25cm x D 27cm x H 23cm
Weight	7kg
Operating noise	<40 db(A)
Electrical	
Voltage	100 - 240V AC ± 10%
Frequency	50-60Hz ± 10%
Power	170W
Number of reactions	32
Format	0.1ml tubes / 8-tube strips
Reaction volume	10 - 100µl
Temperature control	
Method	Peltier
Range	37-99°C
Speed	5°C/s heating, 4°C/s cooling
Resolution	0.01°C
Uniformity	0.05°C (SD)
Accuracy	± 0.25°C
Run time	< 40 minutes

Fluorescence	
Excitation	500nm (blue LED)
Detection	510 to 750nm (CMOS array)
Channels	120 optical channels
PCR	
Sensitivity	Single copy detection
Dynamic range	9-log
Precision	1.1 fold discrimination
Factory calibrated dyes	SYBR Green I, ResoLight, FAM, VIC, HEX, Yellow 555, Red 610, TexasRed, Cy5, CAL 540, CAL 560, CAL 590, CAL 610, CAL 635, JOE, Pulsar 650, Quasar 570, Quasar 670, Quasar 705, ROX, TAMRA, TET
User chosen custom dyes	Yes
Supported assay formats	Intercalating dyes (e.g. SYBR Green I), Hydrolysis Probes, Molecular Beacons, SimpleProbes, HybProbes
Connection options	LAN, Direct connection to computer (RJ45), PC-free (USB stick)

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For more information, please contact;

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