

# MyGo Pro Real-Time PCR Cycler

## Description

Assembled from just a few building blocks the robust MyGo Pro system is easy to transport and install.

Up to 32 samples can be run in 0.1 ml tubes or 8-strip format.

Fast heating and cooling is achieved by utilizing robust Peltier elements, while assay performance is supported further by a heated lid design.

Excitation is provided by high intensity LEDs filtered to provide light at 500nm that is capable of exciting all fluorophores commonly used in qPCR.

A prism is used to generate spectra from fluorescent emissions. These spectra are imaged using a CMOS camera.



## Applications

- Relative and absolute quantification analysis
- Melting point analysis
- TaqMan genotyping Analysis
- High Resolution Melting (HRM)

## Benefits at a Glance

- Small footprint
- Low weight
- Robust design and therefore easily transportable
- Low noise (noise emission < 40dB)
- Ideally suited for all laboratory environments
- The Full Spectrum Optics (FSO) registers 120 data points in the spectrum between 510 and 750 nm for all wells at each cycle.
- The cumulative signals are decoded by the software. This gives the individual parts of the characteristic fluorogenic spectra.
- Reaction volumes of 10 - 100 µl are validated - thus also larger approaches for multiplex applications or diagnostic tests.
- In addition, the instrument can be started from a USB stick with a previously created run template; a connection to a computer is not necessary.

## Top Features

1. No moving parts for absolute transport safety
2. Independence from consumables
3. Optical and thermal validation possible through MyGo Validation Kit: important for all accredited laboratories.

# MyGo Pro - Realtime PCR Cycler

## Technical Data

<b>Number of reactions:</b>	<b>32</b> , expandable to 96 wells and more by connecting several MyGo Pro's via software
<b>Tube format (low profile):</b>	0.1 ml PCR single tubes or 8-strip tubes
<b>Reaction volume:</b>	10 – 100 µl

## Temperature

<b>Method</b>	Peltier
<b>Heating speed</b>	5°C /s
<b>Cooling speed</b>	4°C /s
<b>Uniformity</b>	0,05 °C (SD)
<b>Accuracy</b>	±0.25 °C
<b>Resolution</b>	0.01 °C

<b>Fluorescence detection</b>	510 – 750 nm (CMOS array)
<b>Channels</b>	<b>120</b> , simultaneously usable 7
<b>Connection options</b>	LAN, Stand alone, oder USB-Stick
<b>Operating systems</b>	Windows 7, Mac OS X, Linux

<b>Factory calibrated dyes:</b>	SYBR Green I , ResoLight, FAM, VIC, HEX, Yellow 555, Red 610, Texas Red, Cy5, CAL 540, CAL 560, CAL 590, CAL 610, CAL 635, JOE, Pulsar 650, Quasar 570, Quasar 670, Quasar 705, ROX, TAMRA, TET
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<b>User chosen custom dyes</b>	Yes
<b>Supported assay formats</b>	TaqMan Simple-Probes Molecular Beacons HybProbes Intercalating dyes HRM

<b>Power</b>	170 Watt
<b>Voltage</b>	100-240 V AC ±10%
<b>Frequency</b>	50-60 Hz ±10%
<b>Dimensions (H x ø)</b>	22.5 cm, ø 25 cm
<b>Weight</b>	7 kg
<b>Order No.</b>	112.2014

## Software

The powerful and easy to use software provides the following features:

- Automated analysis modules for:
  - absolute and relative quantification
  - melting curve analysis
  - endpoint genotyping
  - high resolution melting (HRM)
- Quick start using templates for all major applications
- Analysis of full spectral data
- Generation of custom dye files for novel fluorophores
- Straightforward setup and editing of sample and target information
- Comprehensive data export functions
- Compatible with Windows, Mac & Linux Systems
- Instrument start from a USB flash drive, using preprogrammed settings.

