

# MyGo Pro - Real Time PCR Cycler

## Description

The MyGo Pro uses commercially available 0.1 ml PCR tubes with a flat cap. Individual tubes or strip tubes of 8 can be used.

Rapid heating and cooling is achieved through the use of robust Peltier elements, while assay performance is further supported by a heated lid design.

Excitation is provided by high intensity LEDs filtered to provide light at 500 nm capable of exciting all fluorophores commonly used in qPCR. A prism is used to generate spectra from the fluorescence emissions. These spectra are imaged with a CMOS camera.

## **Applications**

- Relative and absolute quantification
- Schmelzpunktanalyse
- TaqMan genotyping
- High Resolution Melting (HRM)

#### Advantages at a Glance

- Small dimensions
- Low weight
- Robust design and therefore easy to transport
- Low noise (noise emission < 40dB)</li>
- Ideal for all laboratory environments.
- Full spectrum optics (FSO) records 120 data points in the spectrum between 510 and 750 nm for all wells in each cycle.
- The cumulative signals are resolved by the software. This provides the individual parts of the characteristic fluorogen spectra.
- Reaction volumes of 10 100 µl are validated i.e. also larger approaches for multiplex applications or diagnostic addiction 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 with MyGo validation kit: important for all accredited laboratories.

# Scope of Delivery MyGo ESR

- MyGo® Pro instrument
- Ethernet cable
- AC power supply
- MyGo® USB thumb drive
- Quick start user guide
- 8 well tubes (120 strips)
- 8 cap strips (120 caps)
- Heavy duty flight case



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#### Software

The powerful and easy-to-use software offers the following functions:

- Automated analysis modules for:
  - absolute and relative quantification
  - Melting curve analysis
  - endpoint genotyping
  - high-resolution melting (HRM)
- Quick start with templates for all important applications
- Analysis of full spectral data
- Generation of user-defined dye files for novel fluorophores
- Easy setup and editing of sample and target information
- Comprehensive data export functions
- Compatible with Windows, Mac and Linux systems
- Device startup from a USB flash drive using pre-programmed settings

Temperature Control	
Thermal system	Peltier, 99.99% silver block
Temperature range	37°C to 99°C
Speed	5°C/s Heating 4°C/s Cooling
Thermal uniformity	± 0,1 °C
Thermal accuracy	± 0,25°C
Factory calibrated dyes	SYBR Green I, ResoLight, FAM, VIC, HEX, ROX, Yellow 555, Red 610, TexasRed, CAL 540, CAL 560, CAL 590, CAL 610, CAL 635, JOE, Pulsar 650, Quasar 570, Quasar 670, Quasar 705, TAMRA, TET (Generic dye files, red spectral dyes will give a poorer performance).
Multiplex with red dyes	No
Supported assay formats	TaqMan <sup>®</sup> , Molecular Beacons, SimpleProbes <sup>®</sup> , Intercalators, High Resolu- tion Melting (HRM)

Optical Data	
No. of channels	4 (Multiplex)
Fluorescence Excitation	500 nm (blue LED)
Fluorescence-Detection	510 nm to 750 nm
Detector type	CMOS array
Detection sensitivity	Single copy detection
Dynamic range	9-log
Presicion	1.1 fold discrimination

General Technical Data	
Order No. MyGo PRO	112.2014
Number of wells	32 well
Tube format	0.1 ml tubes, 8 well strip tubes
Reaction volume	10 – 100 μΙ
Run time	<40 min (dependent on assay)
Status display	Lighting in the lid changes color
Interface	Desktop PC/laptop required Note: Protocols can be run from a preloaded USB thumb drive.
Software	Free Windows/Mac OS X or Linux operating software
Connetivity	LAN (RJ45), USB
Dimensions (W x D x H)	25 x 27 x 23 cm
Power consumption	170 W
Weight	7 kg
Electrical Voltage, Frequency	100 – 240 V AC +/–10%, 50 – 60 Hz +/–10%
Operation noise	<40 dB