

# RIDA® CYCLER

The multiplex real-time PCR instrument

User-friendly magnetic induction real-time PCR system  
for SureFood® and SureFast® PCR kits

- Easy to use
- Fast
- Compact



## Features

- Compact** Portable and compact qPCR instrument with Bluetooth technology
- Fast** Fast qPCR results through rapid heating and cooling using a patented magnetic induction technology and fan forced air for cooling
- Easy** High speed centrifugation ensures samples spin down at the start of a run – no extra centrifuge needed
- Pre-loaded oil overlay inside each tube prevents evaporation and condensation
- User-friendly software set-up with pre-loaded thermoprofiles
- Operate up to 10 instruments from one workstation

## Specifications

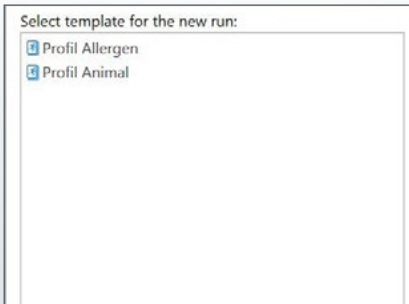
Dimensions	130 x 150 x 150 mm (H x W x L)		
Weight	2.1 kg		
<b>Optical</b>			
Detectors	Photodiode per channel		
Excitation Sources	High power LED for each channel		
4 Channels	Green	Ex 465nm	Em 510nm
	Yellow	Ex 540nm	Em 570nm
	Orange	Ex 585nm	Em 618nm
	Red	Ex 635nm	Em 675nm
Tube format	0.1mL strips of four tubes and matching caps 48 samples per instrument		
Thermal performance	Temperature accuracy: $\pm 0.25$ °C Temperature uniformity: $\pm 0.05$ °C  Ramp rates Heating: 4 °C/s (fast mode) Cooling: 3 °C/s (fast mode)		
<b>Computer minimum requirements</b>			
<ul style="list-style-type: none"> <li>Windows® 7, 32-bit (English version) Operating System</li> <li>.NET Framework 4.5 or higher</li> <li>Intel i5 processor, 2.4 GHz</li> <li>4 GB of RAM</li> <li>1 GB free hard drive capacity</li> </ul>		<ul style="list-style-type: none"> <li>Pointer device</li> <li>USB Drive</li> <li>Adobe® Reader® must be installed to be able to view reports in PDF format</li> <li>Bluetooth®, if this is the preferred connection</li> </ul>	
<b>Calibration</b>			
<b>No calibration required</b> – RIDA®CYCLER is a non-contact system. The rotor is not in contact with anything physical just the induction field.			

# RIDA® CYCLER Software

## qPCR Run

User-friendly software set up with all SureFast® and SureFood® assays pre-loaded.  
Start the qPCR run in only 4 steps:

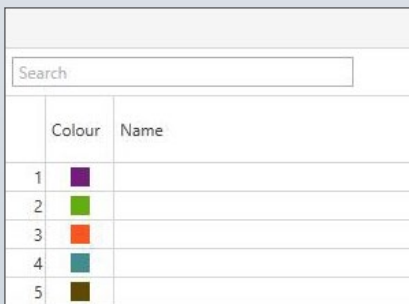
**1** Select the template



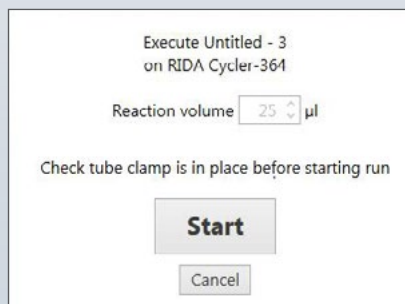
**2** Select the Assay(s)



**3** Enter Samples Names



**4** Start Run



## Results

Analysis options:

**Cycling:** Determination of the quantification cycle (Cq)/ cycle threshold (ct) and reaction efficiency of each sample

Well	Sample	Cq	Efficiency	R <sup>2</sup>
1	NTC			
2	NTC			
3	PTC	27,10	0,98	0,99993
4	PTC	27,08	1,03	0,99980
5	500	29,98	0,98	0,99970
6	500	30,45	0,84	0,99761
7	50	34,04	0,60	0,99992
8	50	32,41	0,75	0,99974
9	5			
10	5	34,43	0,55	0,99842

**Absolute Quantification:** Quantify the unknown concentration of a sample using a standard curve generated with samples of a known quantity

Sample	Concentration (Copies/Reaction)	%
NTC		
PTC	2000	100%
PTC	2000	100%
500	2000	100%
500	2000	100%
50	2000	100%
50	2000	100%
5	2000	100%
5	2000	100%

Report options: Configure the report as needed and export it e.g. as PDF

## Ordering information

Software	Software	Art. No.
RIDA®CYCLER	4 channel qPCR instrument, incl. 1 box of tubes	ZRCYCLER
RIDA®CYCLER-MIC-Tubes	Box with 960 tubes and caps	ZRC-MIC-TUBES

## SureFast® and SureFood® real-time PCR Kits

All kits are validated on the RIDA®CYCLER

### Product range:

- Allergens
- GMO
- Animal species
- Microbiology



**SureFood®/SureFast®  
real-time PCR kits**  
Product Overview

## Benefits

**Size** – qPCR instrument with a small footprint

**Modular** – Connect multiple instruments wireless to one PCR

**Convenient** – Pre-loaded assays – no more programming

**Reliable results** – Validated for SureFast® and SureFood® real-time PCR Kits

• **Simple**

• **Fast**

• **Accurate results**

For further information please visit: [www.r-biopharm.com](http://www.r-biopharm.com)