

# QCOM 2

test software for automation units

## Operating Manual



## Table of contents

|   |                      |   |
|---|----------------------|---|
| 1 | Introduction .....   | 3 |
| 2 | Requirements.....    | 3 |
| 3 | Installation.....    | 3 |
| 4 | Start .....          | 3 |
| 5 | Options.....         | 4 |
| 6 | GUI Description..... | 5 |
| 7 | Support .....        | 6 |

## 1 INTRODUCTION

QCOM 2 is a program with a graphical user interface (GUI) to control lab automation instruments from QInstruments, eg. BioShake, ColdPlate, HeatPlate.

The main purpose of QCOM 2 is to get easy access to the unit to execute initial testing.



**Caution:** QCOM2 is not meant to be used for any critical or production application

## 2 REQUIREMENTS

|                            |   |
|----------------------------|---|
| <b>HARDWARE</b>            |   |
| Minimal resolution [pixel] | 1280 x 1024   |
| USB connection             | USB (type A) port version >= 2.0                        |
| Disc space                 | 11 MB program   |
| <b>OS</b>                  | Tested with Windows 10 Professional (64-Bit)            |
| <b>NETWORK CONNECTION</b>  | -   |
| <b>USER RIGHTS</b>         | Write and Read access in the installation folder        |
| <b>DEVICE</b>              | Via USB connected BioShake / HeatPlate / ColdPlate unit |

## 3 INSTALLATION

Copy the QCOM 2 folder to the desired local drive.

Ensure that user has read and write access for the program folder.  
Ensure enough disc space for log files is available, if logging is activated.

## 4 START

To start the program, execute QCOM2.exe.

By default, the program scans through the available COM ports and detects if a supported QInstruments device is connected to that port.  
The first valid device that is found is used, the scanning process is stopped, and the program starts using the identified device.

Device features will be detected at start-up, and the GUI will be adapted to the following features: mixing, ELM, temperature control

## 5 OPTIONS

It is not necessary to provide command line options. If no options are provided default values will be used.

-p <COM port number>            example: QCOM2.exe -p com4  
 -u <USB identifier>            example: QCOM2.exe -u ACME\_0815

With these options it is possible to define a com port or a string description (FTDI chips) of the device that should be used. If the device is not found the program will exit

-c <file name>                    example QCOM2.exe -c cfg\qcom2.cfg

With this parameter the location and name of a configuration file can be defined. The values in the file will be used instead of the default values. The configuration file must be formatted using the JavaScript Object Notation (JSON). An example should be available in the cfg directory.

| Parameter | Description                    | Default value |
|-----------|--------------------------------|---------------|
| set_speed | Shaker speed at startup        | "3000"        |
| set_acc   | Shaker acceleration at startup | "02"          |
| set_temp  | Shaker temperature at startup  | "30"          |
| set_time  | Shaker time at startup         | "015"         |

Configuration file example:

```
{
  "set_speed": "300",
  "set_acc": "5",
  "set_temp": "40",
  "set_time": "60"
}
```

-l                                    example QCOM2.exe -c cfg\qcom2.cfg -l

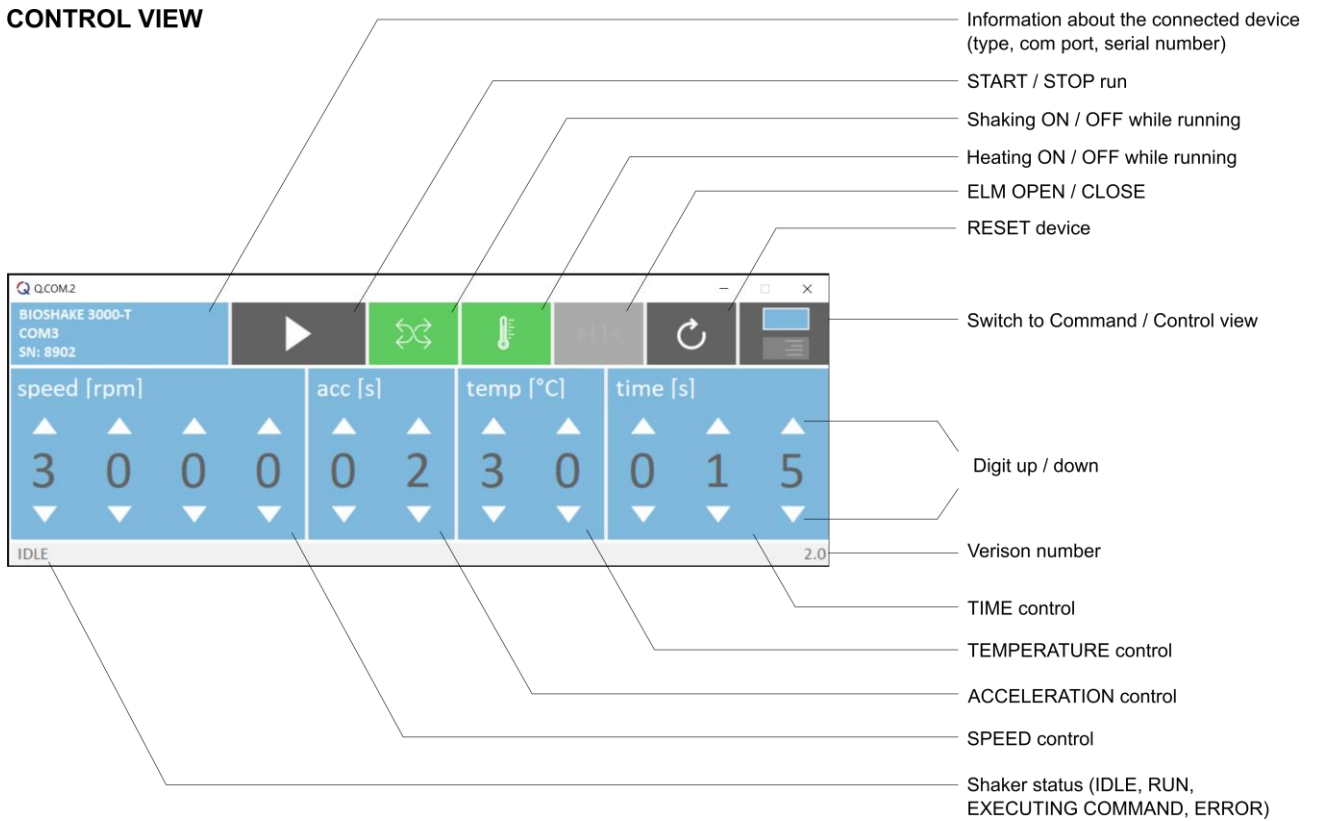
With this parameter logging is activated. A logfile will be generated in the "log" directory. with the name <com port>\_.log (example: .\log\com3\_.log) If existent the logfile will be overridden at start-up.

All options can be used in combination.

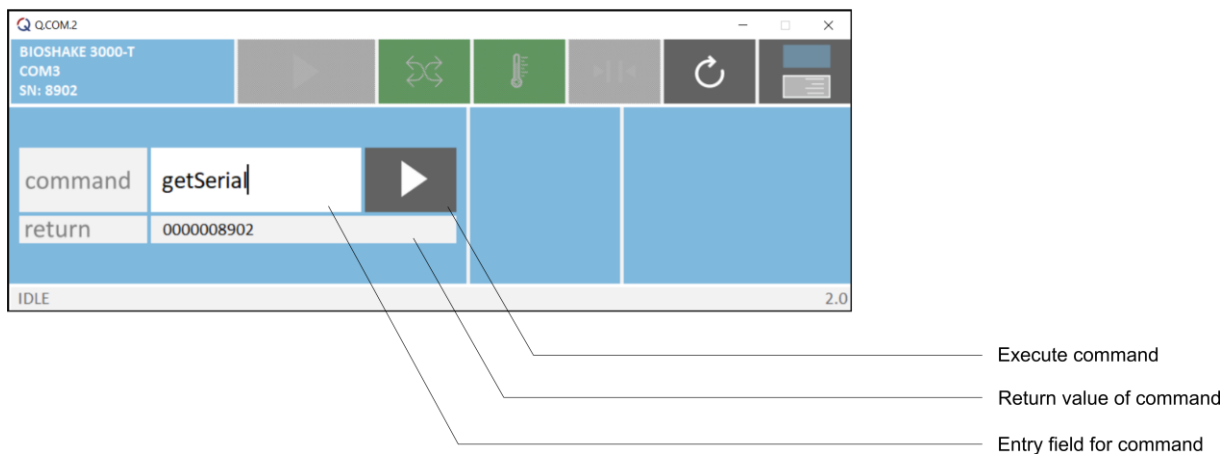
For example:                    QCOM2.exe -p com4 -c cfg\qcom2.cfg -l

## 6 GUI DESCRIPTION

### CONTROL VIEW



### COMMAND VIEW



## 7 SUPPORT

We provide a range of technical material (e.g. application notes, bulletins, instruction manuals, and selection and use guides) that support our products and key applications.

All of our technical documents can be viewed and printed. Many documents are available as pdf files, which can be downloaded from our homepage.

Please contact QInstruments for additional information and availability about the BioShake. For this please use our online contact form or contact us directly via phone or email.

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**WO2008135565, US8323588, EP2144716:** Sample handling device for and methods of handling a sample

**WO2011113858, US9126162, EP2547431:** Positioning unit for a functional unit

**WO2013113847, US10052598, EP2809436:** Cog-based mechanism for generating an orbital shaking motion

**WO2013113849, US9371889, EP2809435:** Mechanism for generating an orbital motion or a rotation motion by inverting a drive direction of a drive unit

**WO2014207243, US20160368003, EP3013480:** Application-specific sample processing by modules surrounding a rotor mechanism for sample mixing and sample separation

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