

INFORMATION BULLETIN

Type: Information

Bulletin Number IB 2023006

Subject: New Lorrca software

Date: August 14, 2023

From: Support department

Number of pages: 5

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Instruments:

All Lorrca instruments with a Windows 10 laptop.

**Please do not update to Windows 11!
(We are not responsible for any changes that occurs after a Windows version update)**

Modification:

Changes in software version 7.01.00:
See release certificate Lorrca

Impact on

Quality / validity of results: Yes

Reliability of the instrument: Yes

Safety of the instrument: No

Effective from:

Software is installed at new instruments, delivered from August 2023 and on.

Compatibility:

The new software version 7.01.00 is compatible with all Lorrca instruments with a Windows 10 laptop.

Is field modification possible?

Yes, the software can be installed by the user **(on Windows 10 laptop only)**

Please follow the instructions included.

Instructions for **Software update** installation:

1. Rename your current Lorrca program 'as a backup'.
The Lorrca program is found in directory C:/Lorrca MaxSis/ and is called 'Lorrca.exe'.
The file should be renamed to 'Lorrca-backup.exe' (conform lab's intentions).

2. Download the file via the Link
<https://support.rrmechatronics.com/index.php/home/lorrca/lorrca-software/>
Password: LorrcaUseR
and run this on the Lorrca computer; double click!
3. The Lorrca SW V7.01.00 will install itself in the correct directory. A new Lorrca.exe program will appear.

Order information:

Lorrca User Manual is updated to version C01 and available on:

<https://support.rrmechatronics.com/index.php/home/lorrca/>

Notes on stock and obsolescence:

N/A

Additional information:

Release certificate Lorrca software version 7.01.00

If you have questions do not hesitate and send your email to support@rrmechatronics.com

Software Release Certificate

RR Mechatronics Manufacturing B.V.
 P.O.Box 225
 1620 AE HOORN
 The Netherlands

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 1689 AN ZWAAG
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 www.rrmechatronics.com

Zwaag, 2023-07-18

The following software is validated and released:

Ref. number: LORC200010
 Descriptions: Lorrca Maxis PC software
 Version: **V7.01.00**
 Release date: 2023-07-18

Previous released version:
V6.05.01

The software is released for the following instruments:

- **Lorrca**

Off the shelf software versions

(List the SOUP software contained in this release, as well as modifications with respect to the previous released software version)

Name	Version	Previous version	Description
n.a.			

Validation:

F4170 Test Report Ver Lorrca Software V7.01.00

Risk statement:

Does a risk-based assessment of the changed device identify any new risks or significantly modified existing risks as a result of the proposed change?	No
Does the proposed change implement a solution to a known product safety problem?	No

Open issues:

The following issues have been identified but have not been resolved in this release.

Issue Number	Description
-	-

Listing of modifications and affected software function groups: **on the following pages**

Released by: Quality Assurance & Regulatory Affairs Department

*This document is electronically signed and released, see last page.
 (use applicable page 2)*

Lorrca MaxSis:

Measurement functions	
Function group	Modifications
Deformability scan	None
Cell stability scan	None
CMS scan	None
Aggregation scan	None
Osmoscan	Cell constant added to result file. Slower gradient pump speed during camera adjustment to avoid overflowing the cup. Longer automatic start time (camera adjustment window).
Oxygenscan	New Elmax calculation. All parameters are calculated and displayed during the run. pO2 results tab displayed as default tab. New pO2 measurement on bob.

Core functions	
Function group	Modifications
Vision	Camera hardware triggering (pO2 measurement on bob). Camera failure detection, recovery and logging.

Communication functions	
Function group	Modifications
Internal communication	None
Printing	None

Management functions	
Function group	Modifications
GUI	Renamed all assay titles to "scan". Removed "Print results" popup at the end of a scan.
Sample data management	Deformability, Cell Stability and CMS scan results are stored in separate folders.
Settings management	Enabling/disabling pO2 measurement on bob
Service and test functions	Shorter self-check without calibration during startup. Longer self-check with calibration via hardware check. Slower gradient pump speed during some rinse, wash and prime procedures. Longer rinsing procedures. Longer End of Day Wash procedure. Longer Prime All procedure. Gradient pump speed limited to max 0.2 rps in hardware check.

System functions	
Function group	Modifications
Operating system	None

REVISION HISTORY

Revision:	Date: (dd-mm-yyyy)	Name:	Change description:
00	18-07-2023	BKS	Initial document

REVIEW AND APPROVAL

*(RRM Internal Review and Approval is documented electronically in **greenlight.guru**)*