

# **PRODUCT BULLETIN**

Type: Field Service

Bulletin Number SB 2019004

### Subject: Software update Lorrca Osmoscan

Date: 15 May 2019

Number of pages: 2

From: Support department

Phone: +31 229 291 129

### **Instruments:**

All Lorrca Maxsis instruments with FireWire or USB3.0 camera and Windows computer with version V4.xx or V5.xx. If you have a Lorrca Maxis instrument with version V3.xx please contact support@rrmechatronics.com

#### Reason:

RR Mechatronics provides a Lorrca software (SW) update, including 2 modifications.

1. This Lorrca SW V5.09 improves the Osmoscan Omin calculation, see figure 1, and is mandatory.

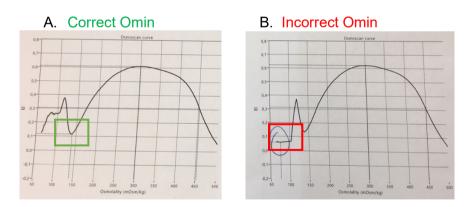


Figure 1. Lorrca Osmoscan Omin calculation depicted; see normal calculation (A) compared to incorrect Omin (B).

A bug in the previous software in rare occasions shows a wrong Omin in the graph. This is corrected in this new SW.

Fax:

Installation of this SW version will not alter your measurements.

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2. The Self-check procedure of the Oxygenscan measurement has been modified to improve temperature setting of the oxygen spot. This improves the operational lifetime of the oxygen spot. As a result of this modified test, this Self-check procedure uses DI water instead of air and takes 5 minutes longer to execute.

Please follow the instructions included.

Software update installation:

- 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).
- Download the file via the Link <u>https://support.rrmechatronics.com/index.php/home/lorrca/lorrca-software/</u> Password: LorrcaUseR and run this on the Lorrca computer: double click!
- 3. The Lorrca SW V5.09 will install itself in the correct directory. A new Lorrca.exe program will appear.

We regret possible inconveniences to you. This SW update is sent to all Lorrca Maxsis users to be executed.

Impact on

Quality / validity of results: Yes

Reliability of the instrument: No

Safety of the instrument: No

#### **Effective from:**

Upon receipt.

#### Order information:

N/a.

#### Additional information:

This update is for Lorrca Maxsis instruments with FireWire or USB3.0 camera and Windows PC with SW V4.xx or V5.xx.

If you have version V3.xx and want to update please contact <a href="mailto:support@rrmechatronics.com">support@rrmechatronics.com</a>

We ask for confirmation of this installation of Lorrca SW V5.09, via a mail to <u>support@rrmechatronics.com</u>, stating contact, name of institution, serial number of Lorrca and date of installation.

If you require more information please send your email to <a href="mailto:support@rrmechatronics.com">support@rrmechatronics.com</a>

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### **Software Release Certificate**

The following software is validated and released for factory installation and field updates:

Ref. number: Description: Version: Release date: LORC200010 Lorrca Maxsis PC software V5.09 11-04-2019

Previous released version: V5.08

The software is released for use in the following instruments:

**Lorrca Maxsis** Released for new installed PC's. Field update is possible

<u>Validation:</u> F4170 Test Report Lorrca Software V5\_09

Listing of modifications and affected software function groups: On the following page

Released by: Mr. K. Artz, Manager Quality Assurance & Regulatory Affairs

This document is electronically signed and released, see last page.

F4174 Software Release Certificate Lorrca Software V5\_08.docx

Conditions: By the ORGALIME GENERAL CONDITIONS S2012 of March 2012. Any other conditions are herewith explicitly rejected by us. Bank: ABN AMRO, Account number: 0403.537.037, Swift-address: ABNANL2A, IBAN: NL60 ABNA 0403 537 037 VAT number: NL 8557 65 392 B01 CoC Number 64657353



#### Listing of modifications and affected software function groups:

Measurement functions	
Function group	Modifications
Deformability curve	pO2 spot rejection at low shear rates (only applicable for Lorrca's with pO2 scan);
Cell stability test	None
CMS test	None
Aggregation	None
Osmoscan	Omin parameter determination improved; EI & O columns swapped in measurement result file; Printing and cleaning at the same time; Result parameters recalculated when opening measurement file;
pO2 scan	EI & pO2 columns swapped in measurement result file; Improved printout (font size & Y-scale range);

Core functions	
Function group	Modifications
Vision	None

Communication functions	
Function group	Modifications
Internal communication	None
Printing	None

Management functions	
Function group	Modifications
GUI	None
Sample data management	None
Settings management	Auto start setting default to OFF;
Service and test functions	Wet oxygenation procedure added to Self-check; Temperature startup fix in Self-check; A & B parameters added to camera check;

System functions	
Function group	Modifications
Operating system	None

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## F4174 Software Release Certificate Lorrca Software V5\_09 (DOC-908)

Approved By:	
Boudewijn Kuijs - Author	
April 15, 2019 1:40 PM GMT	81bd6500-ab11-49dd-bde2-fc3076d15fcb
Sisto Hendriks - Reviewer May 6, 2019 9:41 AM GMT	e36cebf7-bd2b-4113-b8f5-4dd389891c32
Verena Blokker - Document Control May 6, 2019 9:59 AM GMT	5502fc77-def6-437a-9b38-7e97d8979f88
Konstantin Artz - Regulatory May 6, 2019 10:31 AM GMT	f4f837b0-b87d-4d17-bcd8-5fb950a98445

#### Version History:

Author	Effective Date	Ver.	Status
Boudewijn Kuijs	May 6, 2019 12:00 AM GMT	0	Published