

Software Release Certificate

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Zwaag, June 5th, 2018

The following software is validated and released for distributor validation:

Ref. number: **QTST200002**
Descriptions: **"Starrsed PC software"**
Version: **6.10.1**
Release date: **05-06-2018**

Previous released version:
version 5.09 (only applicable for Starrsed RS, Interrliner, delivered from factory)

The software is released for validation in the following instruments:

- **Interrliner**
Released for validation on Windows 7 and Windows 10 PC's
Field update is possible for instruments with ELO screen
- **Starrsed RS**
Released for new installed Windows 10 PC's
Field update is possible for instruments with Windows 7 and ELO screen

Validation:

F4170 Test Report Starrsed PC Software V6.10.0 Win10
F4170 Test report Starrsed PC Software V6_10_1

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

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

Date: June 5, 2018

Signature:



Listing of modifications and affected software function groups:

ESR core functions		Affected instruments		
Function group	Modifications	Starrsed RS	Interrliner	Starrsed TL*
Sample aspiration and dilution	none	no	no	no
Sample measuring	none	no	no	no
Result post-processing	Temperature settings from 28°C to 35 °C	yes	yes	no
Pipette transport	none	no	no	no
Priming and cleaning	none	no	no	no

Sample handling functions		Affected instruments		
Function group	Modifications	Starrsed RS	Interrliner	Starrsed TL*
Sample identification	None	no	no	no
Tube handling	None	no	no	no
Rack handling	None	no	no	no

Communication functions		Affected instruments		
Function group	Modifications	Starrsed RS	Interrliner	Starrsed TL*
Internal communication	none	no	no	no
Printing	none	no	no	no
LIMS communication	TCP/IP connection time out setting changed R-3500 EPU: leading zeros to leading spaces	yes	yes	no
Sysmex track communication	none	not applicable	no	not applicable
Inpeco LAS communication	none	not applicable	not applicable	no
GLP TSM communication	New feature	not applicable	not applicable	yes
Status communication	none	no	no	no

Management functions		Affected instruments		
Function group	Modifications	Starrsed RS	Interrliner	Starrsed TL*
GUI	New GUI layout and viewing improvements Pipette number display fixed Display settings dependent on method set	yes	yes	no
Sample data management	Sample date in case of day change Carousel data sorting	yes	yes	no
QC management	QC results can be resend to LIMS	yes	yes	no
Reagent management	Barcode reader improvement Extra prime step after interrupted fill procedure	yes	yes	no
Maintenance management	End-of-day wash options: -start run mode automatically -schedule of working days added Maintenance interval	yes	yes	no

	increased to 350 samples/day			
Settings management	none	no	no	no
Service and test functions	Improvement of Pot.meter settings	yes	yes	no

System functions		Affected instruments		
Function group	Modifications	Starrsed RS	Interrliner	Starrsed TL*
Operating system	Windows 10 PC	Yes	Yes	Yes

*Note: changes 6.01 to 6.09 are already released for Starrsed TL. Version 6.10 is released separately.

