RENISHAW
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Software Release Notes:
Renishaw CARTO (v2.1)

1. General

History:
Renishaw CARTO software suite is a measurement and analysis package for use with Renishaw calibration systems. The suite includes Capture and Explore which provide data capture and data analysis for XM-60 and XL-80 interferometric measurement. CARTO features a database system which automatically stores and organises data for the user, simplifying operation and allowing users to quickly and easily compare data with historical results.

Replaces:
Version 2.0

Operating system and PC compatibility:
(Supports both 32 and 64 bit architecture)
- Windows 7
- Windows 8
- Windows 10

PC requirements:
Windows 7 Professional Service Pack 1 or above, 1 GB available hard disk space, screen resolution of 1024 x 768 or above, PDF viewer. This installer will also install, if not already installed: .NET 4.6.1.

PC Software Pre-requisites:
Windows Installer 4.5
http://www.microsoft.com/downloads/details.aspx?FamilyID=5A58B56F-60B6-4412-95B9-54D056D6F9F4
All the latest available critical windows updates applied.

Availability:
Available as a free download from www.renishaw.com/carto.

> **Caution:**
> Any software installation can give rise to operating issues due to local system architecture and existing operating procedures. Whilst this version of CARTO software may offer enhanced features over your current version you should always follow your own corporate guidelines regarding software use before installation. This may involve contacting the appropriate I.T./Business Systems personnel within your organisation for guidance and assistance

2. Key Enhancements compared to Renishaw CARTO 2.0

Capture

- New measurement mode called 'free-run' mode
  - New define tab for this mode
  - Manual triggering
  - Automatic triggering
  - Continuous triggering
  - Horizontal straightness, vertical straightness, pitch, yaw and roll errors all plotted against linear position
  - These error graphs can be shown or hidden
  - Optional end-point fitting for straightness data
  - Visual adjustment gauges
  - Copy function for exporting the graphs and data table (e.g. to Microsoft Excel)
- Capture user guide now displayed in new Library app

Explore

- Combined report for creating a single PDF with multiple channel analysis
- Re-vamp to the user interface for comparing test records
  - Users can now select multiple test records in the test browser and press the compare button
  - Matrix table for easy selection of channels to display
  - Plot against position or time
- Option to plot raw data against time
- Add a custom tag to .CARTO files when importing
- Add copy command to environmental conditions view
- Option to use local country format for dates (in settings)
- Option to switch auto-scale ON/OFF in compare view
- Wording change to trigger parameters in the test information area
- Copy command (clipboard) for all 6 graphs on the XM-60 summary view (dashboard)
- Save-as option for exporting .CARTO files
- Updates to the user interface of tagging
- Explore user guide now displayed in new Library app
- Option in settings to average straightness data across all runs.

Fixed bugs

Capture

- The numerical readout for signal strength is now displayed in magnify view when F7 is pressed.

Explore

- VDI 3441 (an international standard) analysis previously displayed actual material temperature for fixed material temperature tests.
- Existing automatic tag names ('Imported on yyyy/mm/dd') previously were not deleted while importing tests into database.
- Test titles are now wrapped in compare view as well as in PDF reports for long test names.

- If multiple tag names were added with the same name but a difference in which letters are capitalised, this was not correctly handled.
- Some characters in PDF reports created with a traditional Chinese OS were not properly displayed.

3. Supported languages

Software

- English
- Japanese
- German
- Traditional Chinese
- Simplified Chinese
- Spanish
- Korean
- Italian
- French
- Russia
- Portuguese
- Czech
- Polish

2.1 version user guide

- English

2.0 version user guide

- Japanese (Capture)
- German (Capture, Explore)
- Traditional Chinese (Capture, Explore)
- Simplified Chinese (Capture)
- Spanish (Capture, Explore)
- Korean (Capture, Explore)
- Italian (Capture, Explore)
- Portuguese (Capture, Explore)
- Polish (Capture, Explore)