Studio Software Update 2011.09.27 – Release Notes

Previous Studio Release: 2010.07.27/2010.10.13

Update Priority: Critical

Summary:

Akrometrix Studio 2011.09.27 (also called Studio 6.0) is categorized as 'Critical' and required for ongoing Akrometrix Customer Service support. As usual, all included Studio applications have been validated for compatibility with previously created Akrometrix Studio file formats.

Important bug fixes and added features are listed below. This list does not include all resolved bugs. Additionally, some known open issues are listed, with work-arounds where applicable.

Update Procedure:

Follow the instructions provided in the document "Akrometrix Studio with Part Tracking Update Preparation" in order to install the Matrox library and USB dongle to run the new Part Tracking feature. Install all applications for Studio 2011.09.27 by launching the provided file "Akrometrix Studio 2011.09.27 Installer.exe". Uninstalling older Studio applications is not required prior to launching this file, as this will be done automatically. The computer should be restarted after application installation is complete.

Key Feature Changes or Additions:

Part Tracking:

The focus of the Studio 2011.09.27 release is the new Part Tracking feature built into the Surface Measurement and Thermal Profiler software. The features included in Part Tracking are numerous and are not included in these release notes. Users should review the Part Tracking training videos and additions to the Surface Measurement and Thermal Profile User Manuals for information on this new feature.

Software:

- A single application was created to uninstall and reinstall all Studio applications.
- Added "Akrometrix Optical Techniques and Analyses 101" to the User Manual installation. This document can be found at "C:\Program Files\Akrometrix\User Manuals" after the software update has been performed.

Surface Measurement:

- Added fields to Metadata, including: Angle, AcquisitionID, and ProfileRunID.

Thermal Profiler:

- Removed the automatic saving of preview jpegs to cut down on wasted disk space now that many more images are being saved with Part Tracking.
- Made a change to the appearance of 3D surface graphs seen in Thermal Profiler. These graphs are not saved to disk, so will only be seen in the Thermal Profiler interface. 3D surface plots in all other Studio applications remain unchanged.

Key Bug Fixes:

Surface Measurement and Thermal Profiler:

- Memory management and usage are now vastly improved. Many thousands of phase images can now be acquired with no ill effect on memory usage.
- Displacement offset value is now always shown correctly in the Metadata.

MP10 Surface Measurement:

- Software no longer crashes on acquisition when no displacement data is found.

Surface Analysis:

- Clicking on the word "Extrema" in the batch processing window will no longer make this text disappear.
- Drawing partitions and masks from the bottom left to top right, no longer causes the partition/mask to sometimes relocate after being drawn. Left-handed users tended to have this problem.

- Surface graphs no longer report incorrect X-Y position on mouse over when phase data offset is non-zero. A similar fix was made for contour graphs.

Known Issues (these bugs were not resolved in time for this release):

- The live camera image can shift periodically. This is not believed to be related to Release 6.0 in any way but it is now known as an important issue.
- Search areas saved in the "akx_track" file may show very slight size and position changes when reloaded.

Surface Analysis (with MP10 only):

- When MP10 images are rotated they will produce erroneous surface data. Because of this error, rotation of single images has remained disabled in the software. However, Batch Rotation of MP10 phase images remains possible when it should not be. For now, orientation of MP10 images should only be changed visually in surface plots when desired. This problem is also present in previous releases.

Versions (listed for reference):

- SurfaceMeasurement   6.1.1.47
- SurfaceAnalysis   6.0.2.2
- ProfileGenerator   6.0.2.2
- FileConverter   6.0.2.2
- StudioManager   6.0.2.2
- LicenseUtility   6.0.0.2