

Phenochart Software Release Notes

Software Version: 2.2.0

This file provides information about Phenochart software, version 2.2.0. Please read this information carefully as it supersedes all printed material or online help.

Overview:

Phenochart enables viewing and annotation of Brightfield and Fluorescent slides scanned by Akoya Biosciences's Vectra 3, Phenomager HT (Vectra Polaris), Phenomager Fusion, and PhenoCycler-Fusion.

System Requirements:

- U.S. English Version of Microsoft© Windows 11 or Windows 10, 64 bit
- .NET 4.8
- Minimum monitor resolution: 1280x768
- Minimum RAM: 2 GB (16 GB strongly recommended)

Software Installation:

To install Phenochart:

1. Log in as an administrator
2. Close all open software programs
3. Double click on Phenochart's Setup.exe
4. Follow the installer's instructions

Software Configuration:

On first launch, you must point Phenochart to your data directory. To do this, load a slide, and pick an example slide scan (.qptiff) within the data directory. All subsequent launches will use the slide browser, which will enable you to view slide thumbnails and scanning details.

Phenochart Version 2.2.0

New Features and Enhancements:

- Support for Windows 11

Known Issues:

- For software compatibility information, please see Appendix C in the Phenochart User Manual.
- Tooltip for marker names longer than 12 characters not displaying for image info list
- For Codex scans, Phenochart stops responding to mouse zoom/pan if you minimize then maximize the view until you click a button
- Slide Browser is slow to load on systems with high disk activity
- The slide browser may launch with an error on rare occasions. This error can be ignored.
- In some cases, the drawn ROI outline remains even if the last generated field is deleted
- Control-clicking on a field to make the application active will delete the field
- An active TMA outline will be shown in a snapshot
- inForm classification dialog can show as Not Responding...
- Drawing an ROI outside of the slide (and application) area will result in an application error
- Normalized counts/second displayed in inForm 3.0.0 / Phenochart 2.0.0 for FL imagery acquired by HT 2.0.0 using 2x2 binned protocols are incorrectly reported 4X higher than the proper values.

Phenochart Version 2.1.0

New Features and Enhancements:

- Improved component sort order for unmixed datasets
- Annotation improvements

Known Issues:

- For software compatibility information, please see Appendix C in the Phenochart User Manual.
- Tooltip for marker names longer than 12 characters not displaying for image info list
- For Codex scans, Phenochart stops responding to mouse zoom/pan if you minimize then maximize the view until you click a button
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Phenochart Version 2.0.1

New Features and Enhancements:

- Support for Extended range Phenolmager and PhenoCycler-Fusion imagery
- Annotation improvements

Bug Fixes:

- Fixed pixel cursor error for RGB imagery

Known Issues:

- Tooltip for marker names longer than 12 characters not displaying for image info list
- For Codex scans, Phenochart stops responding to mouse zoom/pan if you minimize then maximize the view until you click a button
- Slide Browser is slow to load on systems with high disk activity
- The slide browser may launch with an error on rare occasions. This error can be ignored.
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Phenochart Version 2.0.0

New Features and Enhancements:

- Support for Extended range and unmixed HT scan files
- Enables users to apply user-defined #tag values to annotations
- Enables users to import annotations in the form of GeoJSON from QuPath 0.4.2 into Phenochart. This feature includes a script to create invasive margin annotations in QuPath. Please contact Akoya support for details and this script.

Bug Fixes:

- Fixed Pixel intensity mismatch between Phenochart & inForm

Known Issues:

- Tooltip for marker names longer than 12 characters not displaying for image info list
- For Codex scans, Phenochart stops responding to mouse zoom/pan if you minimize then maximize the view until you click a button
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Phenochart Version 1.2

New Features and Enhancements:

- Support for Fusion imagery

Known Issues:

- Earlier versions of Phenochart are unable to load Polaris slides taken with the new camera. An Application Error with the message "Image was acquired by a camera whose name (C13752-50U) is unrecognized" will occur with these slides; upgrade to Phenochart 1.1 to resolve
- Slide Browser is slow to load with high disk activity
- The slide browser may launch with an error on rare occasions. This error can be ignored.
- The drawn ROI remains even if the last generated field is deleted
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- An active TMA outline will be shown in a snapshot

Phenochart Version 1.1.1

New Features and Enhancements:

- Add a clear selection to the composite view settings tool
- List the components in alphabetical order in the data cursor

Known Issues:

- Earlier versions of Phenochart are unable to load Polaris slides taken with the new camera. An Application Error with the message “Image was acquired by a camera whose name (C13752-50U) is unrecognized” will occur with these slides; upgrade to Phenochart 1.1 to resolve
- Slide Browser is slow to load with high disk activity
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Phenochart Version 1.1.0

New Features and Enhancements:

- Composite view settings allow users to subset layers and create multiple composite views.
- Composite view settings can apply to an entire study or a single slide.
- Composite view legend displays stain / marker names for each color
- Handle data taken with the new Polaris camera sensor
- Handle data where the QPTiff file contains up to 50 data layers

Bug Fixes:

- TMA Cores selected for analysis must lie entirely within the image
- TMA cores selected for analysis are not restricted to acquisition sensor size

Known Issues:

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Support:

Contact Technical Support by phone, fax, or email:

Phone: +1 855.896.8401

Fax: +1 855.404.0061

Email: CustomerCare@akoyabio.com

Outside US Email: CustomerCareEMEA@akoyabio.com

Web site: <http://www.akoyabio.com>