

# BeamMic Readme

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Version 2.14

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## Section 1 - Change log

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- v2.14 3/16/2020
  - Added SP920s camera.
  - Added functionality to the automation interface for selection of data format (Standard or Compressed).
    - Default of Standard data format restored.
  - Removed the ability for the user to select zero frames when generating a report.
  - Fixed error message displayed when failing to connect to a data source.
  - Fixed an issue where loading a setup file via the automation interface would cause the display to stop updating enabled results values.
- v2.13 2/15/2019
  - Added camera image smear correction for CCD cameras.
  - Added Enhanced Auto Aperture feature. This significantly improves the ability of the software to optimize the auto aperture, particularly with small diameter beams and low signal to noise conditions. Refer to the User Guide for additional information.
  - Added Exposure, Gain, Black Level, and Tap Mode to the Frame Info results. These results will only be shown if the camera under use allows setting them.
  - Improved algorithm for faster camera enumeration.
  - The option to save 2D images as TIFF files, formerly "on" by default, is now "off" by default.
  - Fixed random application lockups when:
    - Starting the application.

- Moving or resizing a manual aperture.
- When the application is under heavy computational and/or presentation load.
- v2.12.1 05/16/2018
  - Fixed incorrect fluence values displayed in 3D backplane and status bar.
- v2.12 04/23/2018
  - Upgraded FlyCap camera driver to 2.12.2
  - Improved performance of most results.
- v2.11.0 9/13/2017
  - Upgraded PGR drivers to 2.11.164.
  - Added support to auto upgrade installed drivers during installation.
  - Improved reliability of the console service and data server interaction allowing connections to devices to be more stable.
  - Fixed a memory leak in the automation interface.
  - Fixed an issue where the application would not exit when running an automation client without the UI
- v2.9.1 - 3/9/2017
  - Due to limitations imposed by LabVIEW and the consumption of .NET dlls, an additional Spiricon.Automation.LabViewInjector object was created for LabView automation clients.
- v2.9 – 2/14/2017
  - Added automation interface.
  - Fixed an issue where having an SP928 or SP907 and a custom ROI configured, the ROI width and height would be cut in half after performing an Ultracal.
  - Fixed an issue where a custom ROI could not be restored from a saved setup for an SP928 or SP907.
  - More reliable communication with SP928, and SP907 cameras.
  - Other miscellaneous bug and instability fixes.
- v2.8.1 - 8/3/2016
  - Fixed inability to license cameras for the product.
- v2.8 - 6/28/2016

- Full Windows 10 compatibility.
- Added support for SP907 and SP928 cameras.
- Enhanced application logging for diagnostics.
- Renamed application title to make it easier to identify in Task Manager.
- Fixed a calculation error that returned an incorrect plateau uniformity result.
- Fixed a presentation error that caused beam profiles on elliptical beams to display on the wrong axis.
- Fixed a licensing problem that prevented demo licensing.
- Fixed a problem in setup files saved with the setting of 2D elements of the 3D display turned off. The application would start but not become visible.

## Section 2 - Errata and Workarounds

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We work hard to find and correct any bugs in this software product. However, as of this release we still have a few tough bugs for which we have not found complete solutions. The following list details these bugs and offers recovery and work-around methods if available:

- Users with Adobe Reader X may see inconsistent behavior when using the What's This? feature. This is due to flaws in a new security feature in Adobe Reader X. Users can restore previous functionality of What's This? by disabling &"Protected Mode&" in the Reader X Preferences menu.
- Users with 1550nm phosphor-coated cameras should begin with one of the pre-canned 1550nm setups. All user-custom setups for these cameras should begin with the provided versions.

## Section 3 - BeamMic Notes

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Supported Operating Systems:

- Windows 10 (64 bit)
- Windows 7 (32-bit & 64-bit)

While BeamMic is a Windows 7/10 product, full BeamMic operation is expected in earlier Windows operating systems. Extensive testing has not and will not be performed in earlier operating systems; however, we have yet to encounter any major operational problems.

## Documentation

- A PDF version of the Operator's Manual is included with the installation. You must have Adobe Acrobat Reader in order to view this file. You can install Adobe Acrobat Reader from <https://get.adobe.com/reader/>.

## **Installation**

- It is recommended that all users are fully updated to the latest Windows Updates. If all updates are not applied to your system this may cause problems with BeamMic.
- You must have Administrative privileges in order to fully install BeamMic and the required camera driver package.

If you suspect you have found a bug in our software please help us identify it by sending a description of the actions that reproduce it and the .bmSetup file you were using at the time to [softwareqa@ophir-spiricon.com](mailto:softwareqa@ophir-spiricon.com). The more information you can provide, the more likely we can reproduce it in our lab, and fix it.

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