

# BeamGage Standard Readme

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Version 6.14

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## Section 1 - Change log

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- v6.14 12/3/2018
  - Added support for SP1201 & SP1203 InGaAs cameras.
  - Added option to set single-tap or multi-tap on supported Lumenera cameras.
  - Revised HDF5 items in data and setup files for human-readable inspection.
  - Added support for saving image data in TIFF Gray32bppFloat format. This option is selectable on the file save dialog.
  - Statistical pass/fail settings saved in setup files are now restored when loading the file.
  - Trigger delay settings in a setup file are now restored when loading the file.
  - Setup file now restores bit depth settings.
  - Fixed program lockup when aperture is moved or resized while a power meter is attached.
- v6.13.1 05/23/2018
  - Added SP920-G GigE camera.
  - Corrected inability to license PyroCam demo cameras.
  - Fixed incorrect fluence values displayed in 3D backplane and histogram.
  - Removed the 10ms lower exposure limit on SP300 and SP920 cameras.
- v6.13.0 04/23/2018
  - Upgraded FlyCap camera driver to 2.12.2.
  - Corrected an error in display of beam intensity color values in the Color

Bar, 2D cursor tooltip and status bar when power calibrated.

- LW230, SCOR20 and FX cameras are no longer supported. These cameras may continue to operate but will be explicitly disabled in a future version of BeamGage.
- Improved performance of most results. Gaussian results remain slowest because of heavy computation effort.

- v6.12.0 02/26/2018

- Corrected an error in the calculation of Positional Stability.
- Corrected a program lockup when using trigger mode with Gevica cameras.
- Corrected failure of AutoX and Auto Setup when using a Lumenera camera.
- Corrected inaccuracies in LT-665 exposure and gain control.

- v6.11.0 9/13/2017

- Upgraded Pleora drivers to 4.1.7.3988.
- 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

- v6.9.1 - 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. Please refer to the LabView example for more details.

- v6.9 - 2/14/2017

- Power Meter wavelength setting can now be set through BeamGage.
- Power Meter range is set to automatic when connected through BeamGage.
- Ophir Power Meter drivers are no longer installed automatically. They can be installed/uninstalled via the driver manager.
- Power results, when measured through a power meter, now support

statistics.

- Enhancements to the automation now require an additional reference to Spiricon.automation.dll
  - Additional preconfigured setups are installed to support BeamCheck.
  - Fixed an issue where having an SP300, 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 SP300, SP928, or SP907.
  - More reliable communication with SP300, SP928, SP907, XC-130 cameras.
  - Other miscellaneous bug and instability fixes.
- v6.8 - 6/28/2016
    - Full Windows 10 compatibility.
    - Integrated with StarLab 3.2 software.
    - Enhanced application logging for diagnostics.
    - Improved text and images in Driver Manager for ease of camera identification.
    - 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 installation incompatibility between BeamWatch and BeamGage where installing one product would render the other unusable.
    - Fixed a compatibility issue with Windows FIPS security settings that would render the product unusable.
    - 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.
    - Fixed a problem with the automation server that required recompilation of client code when the product was upgraded to a new revision.
    - Fixed the failure to connect to a camera of the same model (but different serial number) as the one saved in a setup file. Affects Pyrocam IIIHR, Pyrocam IV and Gevicam.

## 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 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 pre-canned versions.
- LabView does not natively support the .NET CLR 4. LabView users must take special action to continue using the BeamGage Automation Interface. Please refer to the LabView specific pages of the Automation Interface Documentation for more details and a known workaround.
- Due to the amount of PC memory required to handle the large frame size of the LW11058 we recommend that Windows 7 64-bit with a minimum of 4GB of RAM is used with these cameras. Using this camera in a 32-bit environment may produce adverse behavior.
- 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.
- A 640x480 frame format at 14 bits per pixel on the GRAS20 camera will not run at 60 Hz. This option is available as a selection but will not work properly.
- Under certain conditions Beam Stability files saved under earlier versions may not load properly in BeamGage. A resolution of this problem is scheduled in the near future.

## Section 3 - BeamGage Notes

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### Supported Operating Systems

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

While BeamGage is a Windows 7/10 product, full BeamGage operation is expected in the Windows XP operating system. Extensive testing has not and will not be performed in this operating system; 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

## 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 BeamGage.
- You must have Administrative privileges in order to fully install BeamGage and the required camera driver packages.
- For maximum performance a dedicated video card is recommended over on-motherboard video outputs.

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 .bgSetup 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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