

Memorandum

To: Sales, Marketing, Service and Production
CC: Engineering
From: John McEldowney, Principal Software QA Engineer
Date: 16 Mar 2020
Re: 11980 LBP2 Series

This memo announces a new release of the LBP2 Series. This memo contains a running list of additions and bug fixes associated with each release of the LBP2 Series software.

V3.4.0 3/16/2020

- Added SP920s camera.
- 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.

V3.3.0 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:
 - o Starting the application.
 - o Moving or resizing a manual aperture.
 - o When the application is under heavy computational and/or presentation load.

V3.2.1 25 May 2018

- Fixed incorrect fluence values displayed in 3D backplane and status bar.

V3.2 25 April 2018

- Upgraded PGR FlyCap camera driver to 2.12.2
- Improved performance of most results.

V3.1.0 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.

V3.0.1 – 8/2/2016

- Fixed inability to license cameras for LBP2.

V3.0 – 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 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.

v2.6.1

- Fixed an issue that caused intermittent connection issues with SP620 cameras.
- Removed an extraneous space from the logging output that was causing problems with Excel import.
- Fixed a problem with log file handling when the active log file became unavailable.

v2.6

- Floating results are now loaded correctly from saved setups/data files.
- Cursor Location is now drawn with sub-pixel resolution. Calculations were not affected.

v2.5.0

- Installation procedure is changed due to new camera driver requirements.
- Fixed the program instability that occurred when running 3D view for long periods of time.
- Results display decimal places setting limited to 20
- Corrected a problem in pass/fail results for Centroid Y, Peak Loc Y, Gauss Centroid Y and Y Gauss Centroid X. pass/fail logic is now correct.

v2.4.0

- 2D and 3D drawing performance enhancements.
- Results calculation will make better use of multi-core processors.

V2.3.0.13

- A Troubleshooting section that addresses common issues, was added to the manual.
- Results are now ordered when logging.
- Setups are now loaded correctly in countries that use “,” as the decimal separator.
- Fixed issue that would cause the beam to appear saturated when playing a file through the file console.
- Power/Energy density units are now limited to units/cm², units/inches², units/pixels². This follows the ISO standard.
- SlimDX is no longer required or installed.
- 2D Palette is now changed based on units changes and power/energy values

V2.2.5247.4098

- Fixed color pallet scaling bug for 32 bit machines.

V2.2.5212.6405

General

- Frame comment floating results no longer display "Comment"
- Start menu items now removed upon uninstall
- "What's this?" feature takes the user to the correct location in the documentation for results
- Other miscellaneous bugs fixed

v2.1.5140.7143

General

- Improved UI responsiveness when changing many settings.
- Removed the need for users of any account privilege level to elevate the application (Run as Administrator) and/or approve User Account Control (UAC) prompts when the application is run.
- Fixed many bugs throughout the application.

Computational Engine

- The threading of computations has been redesigned making the application significantly more responsive.

File Export

- Added File Exporting for capturing data to alternate file formats *after* acquisition
- Added ability to export 2D and 3D Beam Display images in JPEG, TIFF, GIF, BMP, and PNG formats
- Added ability to export 2D frame data as comma separated ASCII data.
- Added ability to export data in aperture as comma separated ASCII data.

Logging Ribbon

- Added Result Logging mode capturing data to comma separated ASCII *during* acquisition.
- Units are now included consistently for each result in log files.
- Increased the maximum duration of Time based logging from 99 hours to 99 days.

Reports Ribbon

- Added printable WYSIWIG PDF Report generation.
 - o Added document bookmarks for easier navigation when viewed in Adobe Reader.
 - o Improved layout for better presentation and readability
 - Added Headers and Footers which include product logo, frame comments, and page numbers.
 - Improved Results grid for readability
 - Added row coloring
 - Added indication of Result of Pass/Fail status

Results Display

- Added ability to customize the font size, font color, and numerical format of Result items wherever they may reside (Result Grid, Floating, etc.).
- Improved usability of Copy/Paste from the Results Display.