

Author Esa Kalistaja
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1 Release type

Product/solution	FS SDK 2.5.1	
Release type	Demo	☐
	Proto	☐
	New product	☐
	Additional features /functionalities	☐
	SW product	☒
	Document update	☐
	Correction revision	☐
	Other [state here what]	☐

2 Release components

Release component	Name and version
HW + version	
SW name + version	FS SDK 2.5.1, Vevo filter driver
Camera firmware	

Documentation	Name and version	
User manual	Sensor API documentation, LabView Example User Manual	☐
Installation guide	Setup program with a readme file	☒
Release note	Release Note FS SDK 2.5.1	☒

3 Release FSSDK 2.5.1 features

FSSDK

- A bug fix: Fix layer ordering for thick layers. A second layer pixel was sometimes classified as a first layer pixel.

4 Release FSSDK 2.5.0 features

FSSDK

- Improved FW file handling for Sensor Maintenance Tool 1.2.0
- GUI Example bug fix: The saved profiles length with different surface selections are corrected to be the same.

5 Release FSSDK 2.4.0 features

Vevo filter driver

- Windows 10 driver updated for LCI401, LCI 1600, LCI 1200 and LCI1201 sensors.

FSSDK

- PARAM_AVERAGE_X_PIXEL_SIZE and PARAM_AVERAGE_Z_PIXEL_SIZE parameters are added to read average pixel sizes from the configured sensor's ROI.
- Z-compensation functionality is added to reduce artefacts caused by surface texture.
- Z-compensation calibration functions are added and an example usage is implemented to Field Calibration Tool.
- Z-compensation parameters are added to the recipe.
- Console example batch functionality is using Z-compensation if the calibration file is found.

6 Release FSSDK 2.3.0 fixes

- Multiple sensor image acquisition issue fixed. Issue occurred in every 10 000th frame if triggered simultaneously.
- A new function added to clear the ongoing patch by a user command ClearBatchBuffers()
- Performance Improvement - Support for parallel profile processing
- Fixes: Batch Callback problems with batch timeout and freeing image data fixed, layer sorting fixed when the middle layer is the brightest surface.

7 Release FSSDK 2.2.0 features

FocalSpec SDK Demo application

- A new example application with source codes
- Multi-layer Line callback providing profile and intensity data
- Load configurations from recipe

- Multiple sensors, up to four supported

Support for Intensity Calibration and Compensation

- User can use any sample for the intensity calibration with Field Calibration Tool
- Intensity compensation is done real-time in the SDK
- See Intensity Calibration instruction document

Support for short cluster removal

- User can specify minimum length for connected segments

Support for noise removal in Y-direction

- The filter removes noise by using consecutive profiles
- If the filter is enabled, the parallel processing is disabled, and the profile processing performance is decreased.

8 Enhancements

Performance Improvements

- NA

9 Fixes

- NA

10 Known errors, issues and problems

Known errors

NA

Known issues and problems

NA

11 Additional information

NA

12 Disclaimer

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Contact Information

LMI Technologies, Inc.

9200 Glenlyon Parkway

Burnaby BC V5J 5J8

Canada

Telephone: +1 604-636-1011

Fax: +1 604-516-8368

www.lmi3d.com