

FLI Software Development Kit

Release notes

FirstLight_SDK_Release_Notes_20251002



Revision history

Issue	Date	Para	Details
1.3.1	23/09/2020	All	Initial release
1.4.0	13/01/2021		MAJ v1.4.0
2.1.1	06/05/2021		MAJ v2.1.1
2.5.1	04/03/2022		MAJ v2.5.1
2.5.2	11/03/2022		MAJ v2.5.2
2.6.0	31/03/2022		MAJ v2.6.0
2.6.1	13/04/2022		MAJ v2.6.1
2.8.0	13/12/2022		MAJ v2.8.0
2.8.1	21/12/2022		MAJ v2.8.1
2.8.2	02/01/2023		MAJ v2.8.2
2.8.3	26/01/2023		MAJ v2.8.3
2.9.2	29/05/2023		MAJ v2.9.2
2.9.3	08/06/2023		MAJ v2.9.3
2.9.5	13/11/2023		MAJ v2.9.5
2.9.6	20/01/2025		OI style update
2.10	19/03/2025		MAJ v2.10
2.10.4	02/10/2025		MAJ v2.10.4

Table of contents

1. Introduction.....	5
2. FliSdk version 2.10.4.....	5
2.1. Bug fixes.....	5
3. FliSdk version 2.10.....	5
3.1. Prominent features.....	5
3.2. Bug fixes.....	5
4. FliSdk version 2.9.5.....	5
4.1. Prominent features.....	6
5. FliSdk version 2.9.3.....	6
6. FliSdk version 2.9.2.....	6
6.1. Prominent features.....	6
7. This FliSdk version 2.8.3.....	6
8. FliSdk version 2.8.2.....	6
9. FliSdk version 2.8.1.....	6
10. FliSdk version 2.8.0.....	6
10.1. Prominent feature.....	6
11. FliSdk version 2.6.1.....	6
12. FliSdk version 2.6.0.....	6
12.1. Prominent feature.....	6
12.2. Bug fixes.....	7
13. FliSdk version 2.5.2.....	7
13.1. Prominent features.....	7
13.2. Bug fixes.....	7
14. FliSdk version 2.5.1.....	7
14.1. Prominent features.....	7
14.2. Bug fixes.....	7
15. FliSdk version 2.1.1.....	7
15.1. Prominent features.....	7
16. FliSdk version 1.4.0.....	7
16.1. Prominent features.....	7
16.2. Bug fixes.....	7
17. FliSDK version 1.3.1.....	7
17.1. Prominent features.....	7
17.2. Bug fixes.....	8

18. FliSdk version 1.2.1	8
18.1. Prominent features.....	8
18.2. Bug fixes	8
19. FliSdk version 1.1.1	8
20. FliSdk version 1.1.0	9
20.1. Prominent features.....	9
20.2. Bug fixes	9
21. FliSdk version 1.0.3	9
22. FliSdk version 1.0.2	9
22.1. Prominent features.....	9
22.2. Bug fixes	9
23. FliSdk 1.0.1	9
24. FliSdk 1.0.0.....	9

1. Introduction

This document provides a description of the evolutions introduced in the different versions of the FliSDK.

This document intends to be as complete as possible. However, we advise you to always refer to the First Light SDK User Manual for a complete description of the SDK's behavior.

For each release, this document will present the main evolutions introduced in the release (prominent features), performance improvement, minor changes and bugfixes.

2. FliSdk version 2.10.4

2.1. Bug fixes

- Corrected possible crash with ANDORCB2 camera during certain function
- Corrected Ethernet Grabber detection and connection to camera
- Corrected crash when pixel format was changed
- Updated embarked documentation
- Corrected incompatibility between MatroxGige and Pleora grabbers when detecting a Camera with the two of them available
- Corrected desynchronization when using ethernet grabber
- Corrected retro compatibility problem with Genicam Camera

3. FliSdk version 2.10

3.1. Prominent features

- Added line correction command management
- log and log level added
- Added versioning support for frameGrabberPlugin
- Added support for carac ocam function
- Callback on stats calculation
- Command execution now return state value
- Added getuploadfirmwarefunction on CRED1
- remove FliSfncCamera and stop using CblueOne and CblueTwo name
- Renaming CBlue to AndorCB1 and AndorCB2
- Major clipping correction
- removed multithreading via openmp
- All histogram and statistic processing time and performance
- All example updated to new Cblue's serie name and working

3.2. Bug fixes

- Meta data loading corrected
- Correction on actual camera type after reset or disconnection
- HDR mode and unsignedpixel command corrected
- Fixed stdDev computation
- Fixed auto clip

4. FliSdk version 2.9.5

4.1. Prominent features

- Improvement of the serial communication with the camera at the FliSdk level
- Improvement of the live buffer record of images specially for C-BLUE camera
- Setpoint of Target Temperature active only if cooling off and minimum is now 70K (default stay 80K)

5. FliSdk version 2.9.3

This is a bugfix release of 2.9.2. for missing headers files into include repository

6. FliSdk version 2.9.2

6.1. Prominent features

- Support of Slow Mode (300 FPS)
- Support of matrix convolution bad pixels
- Support of matrix convolution filtering
- Support of Thresholding
- Support of Ubuntu 20.04 LTS
- Support of Matrox Radiant evCL and CXP
- Improvement of parallel computation (selective for sensors with more than 1 000 000 pixels)

7. This FliSdk version 2.8.3

This is a bugfix release of 2.8.2. for the mean/stddev computing and the logger system

8. FliSdk version 2.8.2

This is a bugfix release of 2.8.1. for the histogram computing

9. FliSdk version 2.8.1

This is a bugfix release of 2.8.0. for the display of image while applying clipping

10. FliSdk version 2.8.0

10.1. Prominent feature

- Improvement of the image processing computation on the GPU to increase the number of Frames displayed per second

11. FliSdk version 2.6.1

This is a bugfix release of 2.6.0.

12. FliSdk version 2.6.0

12.1. Prominent feature

- Adding support of fake camera
- Adding raw data feature for genicam camera
- Remove gui dependencies for No Gui version

- Raw image received observer improved

12.2. Bug fixes

- Examples codes correction

13. FliSdk version 2.5.2

13.1. Prominent features

- Add functions to Matlab and Python wrappers

13.2. Bug fixes

- Crash correction for Genicam feature

14. FliSdk version 2.5.1

14.1. Prominent features

- Support Genicam camera
- Support C-RED2 Lite and C-BLUE One
- Thermography
- Support of new grabbers

14.2. Bug fixes

Lot of bugs and crashed corrected.

15. FliSdk version 2.1.1

15.1. Prominent features

- C api improvements + multi cameras
- Can load all supported files
- Python api improvements + multi cameras
- Matlab api improvements + multi cameras
- Detection ethernet cameras
- Support new C-RED 2/3 firmwares

16. FliSdk version 1.4.0

16.1. Prominent features

- Support of C-BLUE One
- Support OCAM²
- Support of grab through ethernet

16.2. Bug fixes

- Big files loading
- Display of unsigned pixels
- Bug with the image received observer

17. FliSDK version 1.3.1

17.1. Prominent features

- Metadata for all the save formats (except .RAW).
- Function follow up the ramp added.
- Support of C-RED 2 ER and C-RED One.
- OpenCV 4.4.0 and boost 1.73.0.
- Enable/disable the ring buffer.
- Example for Python.
- LoadBuffer improved.

17.2. Bug fixes

- Signed/unsigned pixels for save formats.
- Some camera functions.
- Tone mapping.

18. FliSdk version 1.2.1

18.1. Prominent features

- OpenCV tone mapping added.
- Save format AVI, HDF5 and TIFF added.
- Example for C API.

18.2. Bug fixes

- Crash saveBuffer.

19. FliSdk version 1.1.1

This is a bugfix release of 1.1.0.

20. FliSdk version 1.1.0

20.1. Prominent features

- AGC for C-RED 2/3.
- Camera commands observer.
- Multiple imageProcessing instances.
- Burst id filter.

20.2. Bug fixes

- Grabber management.
- Cropping.
- Histogram with negative pixels.
- Build bias and flat.

21. FliSdk version 1.0.3

This is a bugfix release of 1.0.2.

22. FliSdk version 1.0.2

22.1. Prominent features

- Multiple frames per buffer for grabbers.
- Licenses added.
- Manual clipping.

22.2. Bug fixes

- Some camera commands.

23. FliSdk 1.0.1

This is a bugfix release of 1.0.0.

24. FliSdk 1.0.0

Initial release.