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# First Light Vision GUI

## Release Notes

FLI Vision GUI Release Notes\_20231113




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## Revision history

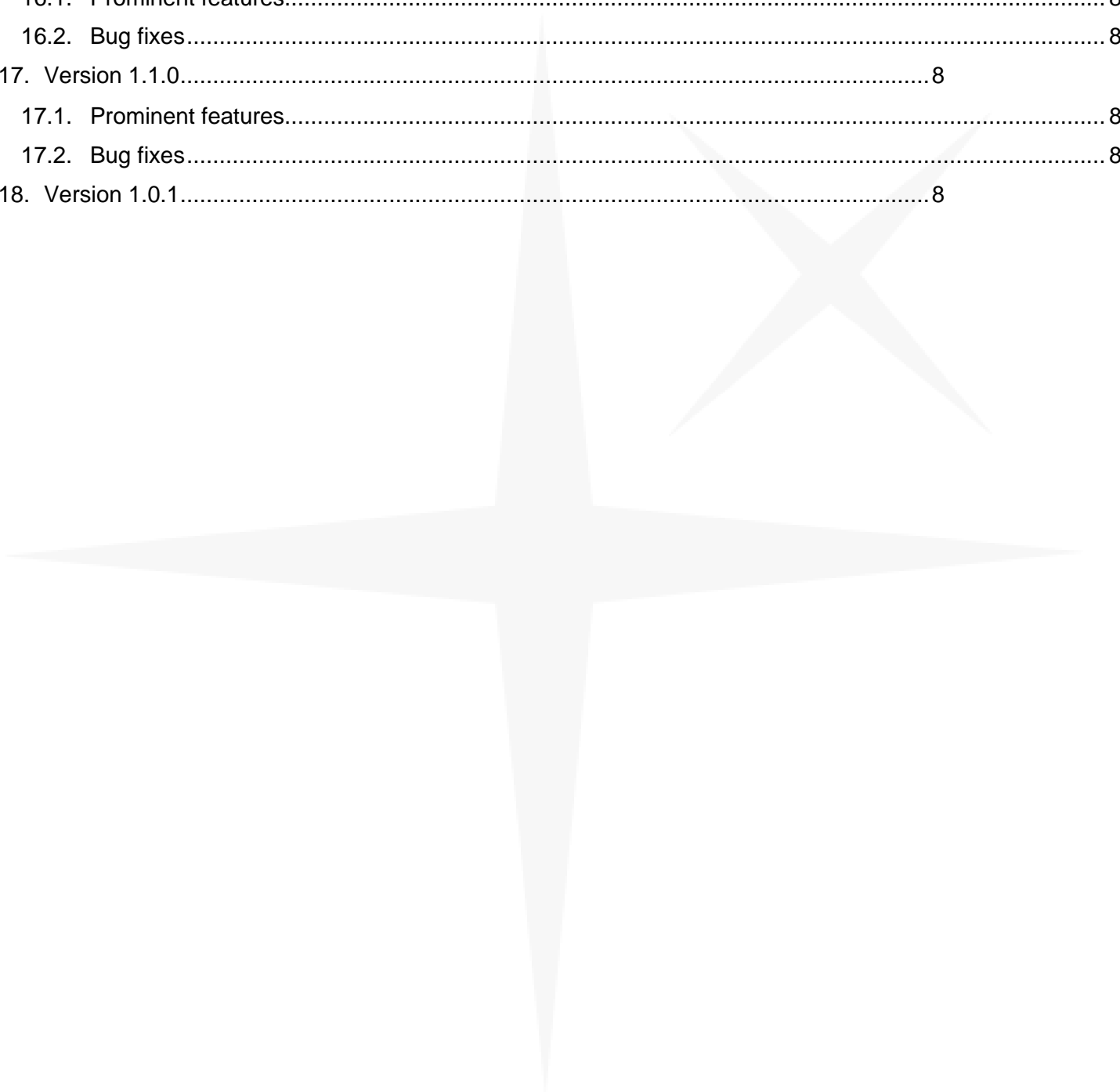
Issue	Date	Para	Details
1.0.1	23/09/2020		Initial release
1.1.0	23/10/2020	2	Version 1.1.0
1.2.0	13/01/2021		Version 1.2.0
1.4.1	05/05/2021		Version 1.4.1
1.4.2	06/07/2021		Version 1.4.2
1.4.3	26/07/2021		Version 1.4.3
2.0.4	01/03/2022		Version 2.0.4
2.0.5	02/03/2022		Version 2.0.5
2.0.6	07/03/2022		Version 2.0.6
2.1.0	13/04/2022		Version 2.1.0
2.3.0	13/12/2022		Version 2.3.0
2.3.1	19/12/2022		Version 2.3.1
2.3.2	21/12/2022		Version 2.3.2
2.4.0	09/01/2023		Version 2.4.0
2.4.1	26/01/2023		Version 2.4.1
2.4.2	27/01/2023		Version 2.4.2
2.5.1	29/05/2023		Version 2.5.1
2.5.4	13/11/2023		Version 2.5.4


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## 1. Introduction

This document provides a description of the evolutions introduced in the different versions of First Light Vision.

This document intends to be as complete as possible. However, we advise you to always refer to the First Light Vision User Manual for a complete description of the software'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. Version 2.5.4

### 2.1. Bug fixes

- Make display of processing windows independent of main windows
- Make refresh features for C-RED One
- Correction of load gain table for C-RED One
- Display addresses (IP, MAC, ...) with the right format instead of integers for C-BLUE
- Support HDR 16 bits for C-BLUE One UV
- Make sure OCAM camera are connected
- Trigger mode correction to avoid infinite loop on reboot
- Switch from Mono8 to Mono12 corrected to avoid black image
- Save preset in file is working now for C-BLUE cameras
- Camera status logger is working now properly
- Maximum button of ADU is giving the value just under the maximum to avoid the return to the minimum due to the reaching of the limitation
- User can now change the name and color of the last curve in histogram
- Mode grab only does not freeze the acquisition anymore
- Convolution matrix now accept any float value
- Thresholding with a structure of the features tree and their display
- Send Files : serial link is working better now


### 2.2. Prominent features

- Support convolution matrix for all the firmwares that accept them
- Reboot after camera (or grabber) change without rebooting FliVision
- Shutdown: FliVision will not try to reconnect automatically
- Notification to user when potentially hidden windows need action
- 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)

## 3. Version 2.5.1

### 3.1. Bug fixes

- Improvement of modes dark (white et pink)
- Correction playback of buffer
- Correction of discontinuity of progress bar of images display
- Correction of histograms computation and display
- Correction of preset refreshing
- Management of disconnected or rebooting camera

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- Drag and drop of saved thermographic images (\*.thr.raw)
- Bias computation for OCAM<sup>2</sup> camera
- Information on the image must not rotate with the image
- Correction of Framerate and Tint selection
- Jetson version corrected and updated

### 3.2. 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)

## 4. Version 2.4.2

### 4.1. Bug fixes

- Exception of Spinbox Focus management for Cropping and Agc coordinates and size that are linked

## 5. Version 2.4.1

### 5.1. Bug fixes

- Cooling SetPoint: getter after set errors specially with PT active

### 5.2. Prominent features

- Improvement of Focus in and out for Console features values input

## 6. Version 2.4.0

### 6.1. Bug fixes

- Correction of Cube statistics
- Improvement of echos (in the console) after send command

### 6.2. Prominent features

- Optimization of image display and statistics
- Heavy computations made parallel on GPU or CPU

## 7. Version 2.3.1

### 7.1. Bug fixes

- Console check fix


## 8. Version 2.3.0

### 8.1. Bug fixes

- Crash fixes
- Support 16 and 14 bits for C-BLUE One and Two

### 8.2. Prominent features

- Improvement of the number of Frames displayed per second specially for C-BLUE Two

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## 9. Version 2.1.0

### 9.1. Bug fixes

- Crash fixes
- Missing C-RED One registers

### 9.2. Prominent features

- Support of FliFakeCamera
- Restore GUI factory settings
- Diagnostic function

## 10. Version 2.0.6

### 10.1. Bug fixes

- Important bug fix for C-RED camera

## 11. Version 2.0.5

### 11.1. Bug fixes

- Important bug fix for firmware updater C-BLUE One

## 12. Version 2.0.4

### 12.1. Prominent features

- Completely new GUI design
- Support of new FLI Cameras

## 13. Version 1.4.3

### 13.1. Bug fixes

- USB grab
- Clipping for C-BLUE
- C-BLUE grab

## 14. Version 1.4.2


### 14.1. Bug fixes

- Correction of row granularity for C-RED One
- Load a 8bits image
- Correction of mode for C-RED One
- Management of multiple USB devices
- Multiple EDT devices

## 15. Version 1.4.1

### 15.1. Prominent features

- Window for ROI interaction
- Groupbox can be reduced/expanded and Logo can be hidden
- Add information in title bar
- Print the viewed image
- New independent window when load a file
- Save the current image as CSV file
- Bad pixels wizard
- Bad pixels correction with computer

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- Snapshot function
- Save/load a camera configuration
- Copy to clipboard displayed image and graph image
- Detection of cameras through ethernet
- Mode basic for the GUI

## 16. Version 1.2.0

### 16.1. Prominent features

- Support of C-BLUE One
- Support OCAM<sup>2</sup>
- Genicam Browser
- Multiple ROI on GUI
- Support of ethernet grab with compatibles cameras
- Graphics with log scale

### 16.2. Bug fixes

- Cropping C-RED 3 couldn't be activated without AGC
- Some image manipulation correction
- Others

## 17. Version 1.1.0

### 17.1. Prominent features

- Window to display pixels as value.
- Load buffer improvement.
- Scripting.
- C-RED 2 ER support.
- Window to measure some camera characteristics.

### 17.2. Bug fixes

- Display of the status instead of the detailed status.
- Functions disabled when no camera is detected.

## 18. Version 1.0.1

Initial release.