ZEB Discovery Image Processor

Software Release Notes

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This document is the Release Notes of GeoSLAM ZEB Discovery Image Processor.

Release References

Release Date	August 17th 2022
ZEB Discovery Image Processor	Version 1.5.1

Deliverables

1. *ZEB_Discovery_Image_Processor_Rel_Notes.pdf*, the Release Notes (this document).
2. *ZEB_Discovery_Image_Processor_Installation_Guide.pdf*, the Software Installation Guide.
3. *Factory Default.xml*, default system leverarms (currently set to 0).
4. *ZebDiscovery.ImageProcessor_v1_5_1.zip*, contains the Image Processor installer for Windows.

Recommend System Requirements

The following operating systems are supported:

- Windows 10

Installation

Before installing the ZEB Discovery Image Processor software, please consult the ZEB_Discovery_Image_Processor_Installation_Guide.pdf software installation guide and section "installer known issues and limitations" below in this document.

To install ZEB Discovery Image Processor software on your PC, please execute *ZebDiscovery.Installers.ImageProcessor_v1_5_1.msi* on Windows. The installer is provided with the product delivery or can alternatively be downloaded from https://geoslam.com/support/.

Notes

Please note the following warning.

Image Processor v1.5.1 will not process data captured after the following date: 01.08.2023

Distance based stitching when camera is started before scanner is no longer supported in Orbit.

ZEB Discovery Image Processor v1.5.1

ZEB Discovery Image Processor Installer v1.5.1

ZEB Discovery Image Processor installer differences to previous versions

V1.5.1

- No differences.

V1.3.6

- No differences.

V1.3.3

- No differences.

V1.3.2

- No differences.

V1.3.1

- No differences.

V1.3.0

- No differences.

Installer known issues and limitations.

- No differences.

ZEB Discovery Image Processor v1.5.1

ZEB Discovery Image Processor installer differences to previous versions

V1.5.1

New Features

- Integration of NCTech SDK (Software Development Kit) v2.3.2.1.
    - Expiration date for processing of legacy and unencrypted iSTAR Pulsar+ data extended to the 1st August 2023.

Improvements

- No Differences.

Issues Resolved

- No Differences.

V1.3.6

New Features

- Integration of NCTech SDK (Software Development Kit) v2.2.10.1.
    - Expiration date for processing of legacy and unencrypted iSTAR Pulsar+ data extended to the 1st August 2022.

Improvements

- No Differences.

Issues Resolved

- No Differences.

V1.3.3

New Features

- Integration of NCTech SDK (Software Development Kit) v2.2.9.1.
    - Expiration date for processing of legacy and unencrypted iSTAR Pulsar+ data extended to the 31st of January 2022.

Improvements

- No Differences.

Issues Resolved

- No Differences.

V1.3.2

New Features

- Added the 'Time in File Name' checkbox to the 'STITCHING' tab to provide UTC time in the JPEG file name.
    - Each JPEG will follow the naming convention: *Camera_Serial-Unix_Timesamp-Year-Month-Day-Hour-Minute-Second-Centisecond*.
    - This ensure that the JPEG images from multiple different capture will not be named identically.

Improvements

- No Differences.

Issues Resolved

- No Differences.

V1.3.1

New Features

- Integration of new NCTech SDK (Software Development Kit) v2.2.8.1.
    - Expiration date for processing of legacy and unencrypted iSTAR Pulsar+ data extended to the June 30th 2021.

Improvements

- Data captured using indoor preset will assume poor/no GPS coverage and therefore ignore all GPS during processing.

Issues Resolved

- Solved issue where frames were dropped unexpectedly during processing if their associated GNSS data was of low quality.

V1.3.0

New Features

- Update to the most recent NCTech SDK v2.2.6.1 (Software Development Kit) to ensure compatibility with the latest NCTech camera firmware.
    - It supports processing of encrypted data.
- Drag and drop option for 'Camera Data Folder' and 'Scanner Trajectory'.

Improvements

- Tooltips have been added to each entry in the STITCHING tab.
- Time and Distance Spacing are now clearly separated and can be selected using dropdown window.
- Image Time Interval (s) has been replaced by Image Count Spacing (Nth).
    - This allows the user to more easily determine which proportion of the images they wish to keep.
    - It also enables to export images at a frame rate higher that 1 fps
- The frame rate resulting from chosen Image Count Spacing value is now calculated and shown within the interface.

Issues Resolved

- Fix for captures where the camera was started before the scanner.