Software’s Version Description Document

Company

Revision Number: 1.0

Release Data: 14 May 2023

Email: xxx@xxx.com

Tel: 0000-00000000

Address:

Global Headquarter:

-

UK Headquarter:

-

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Control Panel** | | | |
| Software Name | Software | | |
| Software Location | Global Headquarter | | |
|  | Name | Date | Status |
| Created by: | Jiaming Xu | 2023/04/25 | Done |
|  |  |  |  |
| Reviewed by: | Jiaming Xu | 2024/04/08 | Done |
|  | Jiaming Xu | 2024/01/29 | Done |
|  | Jiaming Xu | 2023/12/21 | Done |
|  | Jiaming Xu | 2023/12/12 | Done |
|  | Jiaming Xu | 2023/11/20 | Done |
|  | Jiaming Xu | 2023/11/17 | Done |
|  | Jiaming Xu | 2023/10/20 | Done |
|  | Jiaming Xu | 2023/09/05 | Done |
|  | Jiaming Xu | 2023/08/16 | Done |
|  | Jiaming Xu | 2023/05/09 | Done |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Modified by: | Jiaming Xu | 2024/04/07 | Done |
|  | Jiaming Xu | 2024/02/15 | Done |
|  | Jiaming Xu | 2024/01/29 | Done |
|  | Jiaming Xu | 2024/01/18 | Done |
|  | Jiaming Xu | 2024/01/10 | Done |
|  | Jiaming Xu | 2023/12/26 | Done |
|  | Jiaming Xu | 2023/12/25 | Done |
|  | Jiaming Xu | 2023/12/21 | Done |
|  | Jiaming Xu | 2023/12/14 | Done |
|  | Jiaming Xu | 2023/12/12 | Done |
|  | Jiaming Xu | 2023/12/08 | Done |
|  | Jiaming Xu | 2023/12/06 | Done |
|  | Jiaming Xu | 2023/11/22 | Done |
|  | Jiaming Xu | 2023/11/20 | Done |
|  | Jiaming Xu | 2023/11/17 | Done |
|  | Jiaming Xu | 2023/11/15 | Done |
|  | Jiaming Xu | 2023/11/13 | Done |
|  | Jiaming Xu | 2023/11/08 | Done |
|  | Jiaming Xu | 2023/11/03 | Done |
|  | Jiaming Xu | 2023/10/27 | Done |
|  | Jiaming Xu | 2023/10/19 | Done |
|  | Jiaming Xu | 2023/10/13 | Done |
|  | Jiaming Xu | 2023/10/09 | Done |
|  | Jiaming Xu | 2023/10/04 | Done |
|  | Jiaming Xu | 2023/09/15 | Canceled |
|  | Jiaming Xu | 2023/09/07 | Done |
|  | Jiaming Xu | 2023/09/01 | Done |
|  | Jiaming Xu | 2023/08/18 | Done |
|  | Jiaming Xu | 2023/08/04 | Done |
|  | Jiaming Xu | 2023/07/14 | Done |
|  | Jiaming Xu | 2023/07/07 | Done |
|  | Jiaming Xu | 2023/06/16 | Done |
|  | Jiaming Xu | 2023/06/08 | Done |
|  | Jiaming Xu | 2023/05/26 | Done |
|  | Jiaming Xu | 2023/05/10 | Done |
|  | Jiaming Xu | 2023/04/29 | Done |

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision history** | | | |
| Version No. | Date | Author | Rational |
| 3.6.25.725427 | 2024/04/07 | Jiaming Xu | Add new function |
| 3.6.25.725127 | 2024/02/15 | Jiaming Xu | Add new function |
| 3.6.25.725001 | 2024/01/29 | Jiaming Xu | Update a function |
| 3.6.24.724766 | 2024/01/18 | Jiaming Xu | Add a function |
| 3.6.23.724756 | 2024/01/10 | Jiaming Xu | Add a function |
| 3.6.23.703472 | 2023/12/26 | Jiaming Xu | Add a function |
| 3.6.22.703471 | 2023/12/25 | Jiaming Xu | Add a function |
| 3.6.22.703465 | 2023/12/21 | Jiaming Xu | Add a function |
| 3.6.22.703456 | 2023/12/14 | Jiaming Xu | Update a function |
| 3.6.22.703454 | 2023/12/12 | Jiaming Xu | Add new function |
| 3.6.22.703450 | 2023/12/08 | Jiaming Xu | Fix the bug |
| 3.6.21.703446 | 2023/12/06 | Jiaming Xu | Update a function |
| 3.6.20.703322 | 2023/11/22 | Jiaming Xu | Add new function |
| 3.6.19.703320 | 2023/11/20 | Jiaming Xu | Fix the bug |
| 3.6.17.703315 | 2023/11/17 | Jiaming Xu | Add new function |
| 3.6.16.703313 | 2023/11/15 | Jiaming Xu | Add new function |
| 3.6.15.703311 | 2023/11/13 | Jiaming Xu | Add new function |
| 3.6.14.703304 | 2023/11/08 | Jiaming Xu | Add new function |
| 3.6.12.703277 | 2023/11/03 | Jiaming Xu | Fix the bug |
| 3.6.11.703163 | 2023/10/27 | Jiaming Xu | Add new function |
| 3.6.10.703153 | 2023/10/19 | Jiaming Xu | Add new function |
| 3.6.07.703145 | 2023/10/13 | Jiaming Xu | Fix the bug |
| 3.6.06.703141 | 2023/10/09 | Jiaming Xu | Add new function |
| 3.6.02.703134 | 2023/10/04 | Jiaming Xu | Add new function |
| 3.5.10.703003 | 2023/09/15 | Jiaming Xu | Fix the bug |
| 3.5.07.702773 | 2023/09/07 | Jiaming Xu | Add new function |
| 3.5.06.702765 | 2023/09/01 | Jiaming Xu | Add new function |
| 3.5.04.702642 | 2023/08/18 | Jiaming Xu | Add new function |
| 3.5.02.702624 | 2023/08/04 | Jiaming Xu | Add new function |
| 3.4.02.702472 | 2023/07/14 | Jiaming Xu | Fix the bug |
| 3.4.01.702463 | 2023/07/07 | Jiaming Xu | Add new function |
| 3.3.07.702330 | 2023/06/16 | Jiaming Xu | Add new function |
| 3.2.05.702320 | 2023/06/08 | Jiaming Xu | Add new function |
| 3.2.02.702176 | 2023/05/26 | Jiaming Xu | Fix the bug |
| 3.2.01.702156 | 2023/05/10 | Jiaming Xu | Add new function |
| 3.1.12.702035 | 2023/04/29 | Jiaming Xu | Add new function |

|  |
| --- |
| **Revision Details** |
| **Version number**  3.6.25.725427  **New function**  - Beside the installation path of the software, the path of the bag file which is going to be processed accepts empty spaces.  - New parameter ‘Fast-Algorithm’ and ‘Fast-Algorithm Params’ are added.  - New language, Japanese, is added. |
| **Version number**  3.6.25.725127  **New function**  - User may drag a folder into the software to process the bag  - error notification will be shown if there are missing/invalid files in the folder.  - Panoramic function is added for colorization. |
| **Version number**  3.6.25.725001  **Update function**  - Gcp - workflow has changed:  - There would be two auto detections(for circular control points)  - Accuracy report is then generated.  - Credential system is updated, so the valid passcode’s remaining time will be saved in the pc and the software is activated automatically whenever a new installation happens.  - Rtk’s parameter, coordinate system, is updated.  - Error output information, while processing the bag, is more organized.  - Able to differentiate whether pc’s usage or dependencies cause the error.  - Progress bar is more organised. |
| **Version number**  3.6.24.724766  **New function**  - Added a new function about credential and authenticity.  - User can now simply input a string to activate or update the time.  - New params added for ‘Algorithm Plus’. |
| **Version number**  3.6.23.724756  **New function**  - Slam now can output Algorithm’s log in the folder ‘Log’.  - Prevent pc from deep sleeping when processing the data. |
| **Version number**  3.6.23.703472  **New function**  - New function ‘map optimization’ added to Slam. |
| **Version number**  3.6.22.703471  **New function**  - UI now can scale to different kinds of resolutions of the screen.  - New parameter added for ‘colourisation’, color penetration strength. |
| **Version number**  3.6.22.703465  **New function**  - Gcp - added function: add control points manually |
| **Version number**  3.6.22.703456  **Update function**  - Remove “SLAM.bag” after all processes are done. |
| **Version number**  3.6.22.703454  **New function**  - New parameter “Inc. Uncolored Pts” included for colorization. |
| **Version number**  3.6.22.703450  **Bug fix**  - Fix a bug on the ‘Bag fix’ function. |
| **Version number**  3.6.21.703446  **Update function**  - Added new environment choices, and adjust the relevant parameters, in project type SLAM. |
| **Version number**  3.6.20.703322  **Bug fix**  - Added a function to display a diy terminal, for outputting more information during the process of the bag files. |
| **Version number**  3.6.19.703320  **Bug fix**  - The output of Algorithm is now available. |
| **Version number**  3.6.17.703315  **New function**  - Changed the way of processing the bag data in the Linux version of Software. |
| **Version number**  3.6.16.703313  **New function**  - Automatic detection for anomalies when processing the data. For example, if the ram has exceeded its maximum usage, the process will be stopped. |
| **Version number**  3.6.15.703311  **New function**  - Added a function to fix faulty bag. Such as if the Product device ran out of battery, the result bag file will have an extension of ‘.active’. And this function will fix this type of bag files. |
| **Version number**  3.6.14.703304  **New function**  - Added cancel button for the projects. So user can choose to stop the processing for running, or removed the finished, waiting to be processed or canceled project from the queue. |
| **Version number**  3.6.12.703277  **Bug fix**  - Some displayed picture in the UI, such as starting splash screen and unique icons, are refurbished. |
| **Version number**  3.6.11.703163  **New function**  - Added a function to rescale the intensity of the input point cloud. |
| **Version number**  3.6.10.703153  **New function**  - Add a notification for running the bag files. This acts as a reminder to keep the working environment of the computer free. |
| **Version number**  3.6.07.703145  **Bug fix**  - Some parameters have failed to respond to the changes before running the bag file, and this has been fixed. |
| **Version number**  3.6.06.703141  **New function**  - The layout and structure of the set-up for running the bag files has changed. Some parameters are adjusted. As well as the layout of the ‘view’ page. |
| **Version number**  3.6.02.703134  **New function**  - Automatic detection for the input files’ path. This is because paths should contain English characters, numerical numbers and valid symbols only. |
| **Version number**  3.5.10.703003  **Bug fix**  - Thought that the verification of identity has a bug, and actually it works fine. So nothing is committed. |
| **Version number**  3.5.07.702773  **New function**  - Updated the function of automatically modifying parameters during environment switching. |
| **Version number**  3.5.06.702765  **New function**  - The default saving path, and the default path when choosing any files has been changed to where the input, for example the bag file, is. |
| **Version number**  3.5.04.702642  **New function**  - Added a function to change language, for now only English and Mandarin are available. |
| **Version number**  3.5.02.702624  **New function**  - Updated the ‘stopwatch’ function in the software. So now the units are, ‘hr’, ‘min’ and ‘s’ and has a decimal points of 2. |
| **Version number**  3.4.02.702472  **Bug fix**  - The line-up of the input the files, such as MP4 files, are messed up. And the order has been fixed. |
| **Version number**  3.4.01.702463  **New function**  - Projects with different type can be in line-up position to be processed. |
| **Version number**  3.3.07.702330  **New function**  - Projects can be in line-up position to be processed. |
| **Version number**  3.2.05.702320  **New function**  - Notifications are added to the bottom of the software. |
| **Version number**  3.2.02.702176  **Bug fix**  - Project ‘Colourisation’ has fixed a bug where the input files and the related algorithms are now working fine. |
| **Version number**  3.2.01.702156  **New function**  - Added a function to view pictures in the point cloud. |
| **Version number**  3.1.12.702035  **New function**  - A brand new appearance of Software is finalized.  - Linux version of Software has finalized. |