Release Note:

**Date**: 16/02/2015

* **Software Package Name**:
* **Version**: Alpha, still under development.
* **Developed by**: Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Dehradun India as R&D software product for training and capacity building for Close Range Photogrammetry.
* **Contact**: [prsd@iirs.gov.in](mailto:prsd@iirs.gov.in)
* **Purpose**: To generate 3D street scenarios using a set of 2D images based on the principles of Close Range Photogrammetry
* **Supported OS**: Windows XP/Windows 7/Windows 8 (32 and 64 bit)
* **License**: Free and Open Source
* **Dependencies**:
  + - Python- <https://www.python.org>
    - OpenCV- <http://opencv.org/>
    - OSM Bundler- <https://github.com/HaiyangXu/osm-bundler>
    - Cloud Compare- <http://www.danielgm.net/cc/>
    - Google SketchUP- <http://help.sketchup.com/en/article/60107>

This open source freeware software application can generate 3D street scenarios using a set of 2D images based on the principles of Close Range Photogrammetry. The photos are captured with an overlap (minimum being 60%) using consumer grade camera/mobile phone camera. Individual floor/residential or commercial unit can be tagged with user defined database. The application comprises of various processes which generates a 3D model that can be imported as KML for 3D visualization in Earth explorer such as GoogleEarth, Bing 3D, ISRO Bhuvan 3D etc.,) with the attributes of database tables. This software product is developed only as R&D activity for non-commercial uses.

***Key features of the software product:***

* One stop solution for generating 3D street views.
* Provides real world coordinates/ Scalable georeferenced 3D street view.
* Images collected using wide range of cameras/mobile phones can be processed.
* Semi automatic segmentation of features and noise masking.
* 3D database creation and simple query options.

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All feedback and bug reports are welcome; please send to [prsd@iirs.gov.in](mailto:prsd@iirs.gov.in) . Team at IIRS will try best effort to address all the reported bugs in next release of the products.

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