



**Dear INPHO Customer,**

We are pleased to announce a **new major release** of the Trimble INPHO photogrammetric system:

**ApplicationsMaster 5.3**  
**DPMaster 5.3**  
**DTMaster 5.3**  
**inBLOCK 5.3**  
**MATCH-AT 5.3**  
**MATCH-AT Pushbroom 5.3**  
**MATCH-T DSM 5.3**  
**OrthoMaster 5.3**  
**BuildingGenerator 2.2**

The new version of **OrthoVista** will follow in a few weeks.

We have added many new production-oriented features and modules. The main highlights are:

### **New point cloud management with tiled data structure**

With our new tiled data structure DTMaster and the DTM Toolkit within ApplicationsMaster are now able to handle projects with many billions of points captured by LIDAR, digital photogrammetric image matching or by any other means.

The navigation within the tile structure is easy to use and highly graphical. It enables a secure and well-controlled processing of large projects. All data of a tile can quickly be accessed, including status information of the production process. The tiles are organized in a lean structure, based on LAS files and tile definition in Shape files. This is supported by MATCH-T DSM which is now able to export point clouds in LAS format.

Various functions can be applied per tile, or for larger areas (for example thinning-out, or the numerous visualization and editing functions of DTMaster, or with the relevant SCOP++ licenses filtering for point cloud classification, hybrid DTM interpolation or contouring).

### **BuildingGenerator for automated 3D building extraction**

BuildingGenerator is a new product for fully automatic extraction of Level-of-Detail 2 (LOD2) building models from 3D point clouds. BuildingGenerator generates standard roof forms like flat, saddle back, hip, mansard or tent roofs.

A 2D footprint is required as input per building. 3D building models are provided in XML format, suitable for import into topographic database systems.



## **AT analyzing tool now integrated with point measurement**

The graphical block analysis tool (inSpect) of MATCH-AT has been ported into the point measurement tool. Any findings during quality control can now immediately be corrected by tie point or control point measurements.

## **Refinement of initial exterior orientation for blocks without GNSS data**

Another improvement of MATCH-AT relates to handling of blocks with coarse initial exterior orientation (e.g. GNSS camera positions missing). A special refinement step for improving the initial orientation can be applied in such cases.

## **Improved support of oblique images**

MATCH-T DSM supports the use of oblique images in order to obtain a complete DSM point cloud on ground, roofs or facades.

DTMaster and MATCH-AT offer a new stereo view with oblique projection. This function can be used to go step-by-step around buildings using different oblique image combinations.

## **ALOS satellite imagery supported**

ALOS is now supported, in addition to various other satellite imagery.

## **3D mouse Stealth-3 supported**

The new 3D mouse Stealth-3 is now supported, including button definitions in DTMaster.

## **New "Lite" versions available**

New Lite versions at favorable prices are now available for MATCH-AT, MATCH-T DSM and OrthoMaster. MATCH-AT Lite is now restricted to blocks of up to 250 images. MATCH-T DSM Lite and OrthoMaster Lite are restricted to 250 frame images or 12 pushbroom images, and do not support batch processing.

Please ask our sales representatives for quotations.

## **Improved performance by multi-threading**

Some of the time-consuming processing tasks within MATCH-AT, MATCH-T and OrthoMaster (except for "Lite" versions) are now using the multi-threading technology to speed up the overall processing. Up to four threads are used by one software license. The operating system is responsible for assigning the threads to the available cores/processors of the workstation.



# inphoLETTER

June 2010

For more detailed information about all new features, changes and enhancements, see the individual Release Notes documents available for download from our web site.

Please pay attention to the additional information in the **Appendix** of this document concerning operating systems and software licensing.

For any further questions, please contact our Support Team at [support@inpho.de](mailto:support@inpho.de) for all technical issues and our Sales Team at [sales@inpho.de](mailto:sales@inpho.de) for all commercial questions.

With kind regards,

**INPHO GmbH**



## APPENDIX

### Delivery information

Starting **June 28<sup>th</sup>, 2010** the new version will be available on our website [www.inpho.de](http://www.inpho.de). Click on the download section for new software releases, operating manuals and release notes. A visitor registration is requested for the download. If you would like to receive the new version on DVD, please contact us.

### Recommendations for operating system

Version 5.3 of Trimble INPHO products runs on Windows 7, Windows Vista or Windows XP operating systems.

32-bit versions are available for all products. 64-bit versions are available for MATCH-AT, inBLOCK, MATCH-T DSM, DTMaster, OrthoMaster and OrthoVista. For products with both versions available, the user can select which one to use.

For performance reasons we recommend using Windows 7 64-bit, especially for processing large projects. We do **not** recommend using Windows 7 32-bit or Windows Vista 32-bit.

Please note that version 5.3 of our software will be the **last version** with 32-bit support.

### Licensing information

New licensing files are required for all the new versions. Contrary to the previous version, a license for version 5.3 will enable our customers to work with both, the new version 5.3 or the previous version 5.2. This will make the transition from version 5.2 to version 5.3 much easier.

Customers who have a valid maintenance agreement will receive the license free of charge.

For both, Aladdin Hardlock and WIBU Codemeter licensing systems, users will receive an e-mail with a link for downloading the licenses for the new versions, and detailed instructions for the license updating procedure.

The 64-bit versions are licensed with the WIBU dongle system only. If you are still using the Aladdin Hardlock system, please contact us for a quote to replace your dongle hardware.