

Leica HxMap

High performance production workflow for airborne sensors

Leica Geosystems' world leading airborne sensor portfolio has been for many years the choice of professionals around the world seeking to create the highest quality thematic maps, create the foundation for national cadastres, provide a basis for environmental mapping or simply create a snapshot of the world.

The increased need for up-to-date geospatial information in many of the traditional applications as well as in emerging areas such as navigation or Smart City applications requires a new approach to data processing: rapid updates over large areas in the shortest possible time. And if this was not challenging enough, customers need flexibility and scalability depending on project requirements and available resources.

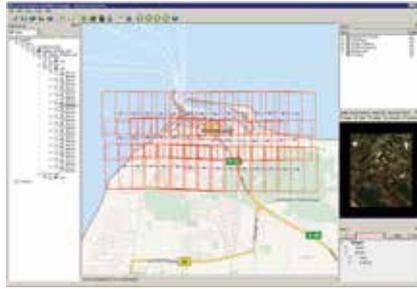
It's a simple equation: To be a true No 1, even the world's most efficient camera relies on the most efficient data processing. Based on the acclaimed Leica XPro processing suite, Leica Geosystems is introducing Leica HxMap, the new and intuitive common sensor workflow platform to support all sensors of the world's most comprehensive airborne mapping portfolio.

Powerful workspace

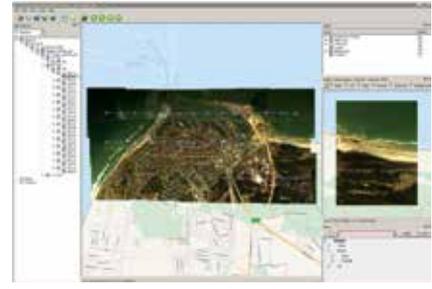
Leica HxMap feature a simple yet powerful workspace that allows the user to easily manage even the largest data sets. Starting from data download, raw QC to basic data management, Leica HxMap intuitively guides through the sensor specific processing steps, based on the input data. Radiometric processing, which has set standards with the Leica ADS100 sensor systems, is now available for all sensors.



Workflow manager



Raw QC



Ingest

Key elements of the photogrammetric process such as aerial triangulation have once again been revolutionised and the software offers the right solution for large oblique projects, countrywide orthophoto projects or small engineering projects alike.

And since the most important part is the information, the product generator allows a large number of products to be generated by the push of a button: referenced images, orthophotos, info clouds, point clouds and in the near future large orthophoto mosaics.

Reaching such efficiency is only possible through tight integration of the data acquisition with the post processing. Thus, RealWorld and RealCity can be enabled for all imaging camera and sensor types. In order to facilitate flexibility in production scaling, they will be offered in dedicated and application specific bundles.

Released in stages over the course of next year, Leica HxMap RealCity for smart city and 3D City applications and Leica HxMap RealWorld for RCD30 standalone and DMC II*, DMC IIe and DMC III based mapping projects are available from Q4 2015.

Leica HxMap RealCity for 3D applications



Leica RCD30 Oblique

Leica MissionPro

Waypoint Inertial Explorer

Modules included:

- **Enabler** (Enabler, workflow manager)
- **Provider** (Ingest, Raw QC)
- **Core** (APM, AT, terrain editor, infocloud, ortho generator, ortho mosaic)
- **3D Modeller Basic** (City modeller, texture mapper, 3D editor)
- **2D/3D Presenter** (2/3D viewer, geospatial portal)
- **Standard Hardware**

Modules optional:

- **Stereo Mapping** (Photogrammetry workstation)
- **3D Modeller Advanced** (Building finder, 3D mesh)
- **SDK** (Developer's kit)

Leica HxMap RealWorld for 2D applications



Leica DMC III



Z/I DMC IIe



Leica RCD30

Leica MissionPro

Waypoint Inertial Explorer

Modules included:

- **Enabler** (Enabler, workflow manager)
- **Provider** (Ingest, raw QC)
- **Core (*2016)** (APM, AT, terrain editor, infocloud, ortho generator, ortho mosaic)

Modules optional:

- **3D Modeller Basic** (City modeller, texture mapper, 3D editor)
- **2D/3D Presenter** (2/3D viewer, geospatial portal)
- **Standard Hardware**
- **Stereo Mapping** (Photogrammetry workstation)
- **3D Modeller Advanced** (Building finder, 3D mesh)
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* depends on configuration.

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