

Versatile



Flexible workflows

Capture your images with any camera or drone, process them locally or on the cloud, and selectively share any part of the project.



Powering multiple applications & industries

A broad variety of tools to power applications in multiple industries, from surveying & mapping, construction, agriculture, mining & aggregates, public safety, oil & gas, power & utilities, to education & research and more.



Multilingual

Use the software in your language. Pix4Dmapper is available on desktop in English, Japanese, German, Spanish, French, Chinese, Italian, Russian and Korean.



Support

Count on our personal technical support, expert user community, knowledge base and training programs to help you keep learning and overcome any issues.

Accurate



Survey-grade results

Sub-centimeter resolution from lightweight and compact cameras to large-frame metric cameras.



Precise measurements

Even for projects without geolocations by assigning linear scales.



Quality results

Get the results you require. Customize your projects by defining areas of interest, changing processing options or adding ground control points.



Automation

High-speed processing using GPUs and multithread CPUs. Let the software handle all the calibration, image processing, and object classification.

Inputs



RGB images .jpg, .tif



Drone images .ipg, .tif



Multispectral images .jpg, .tif



Thermal images .jpg, .tif



Fisheye images .jpg, .tif



Camera rig images .jpg, .tif



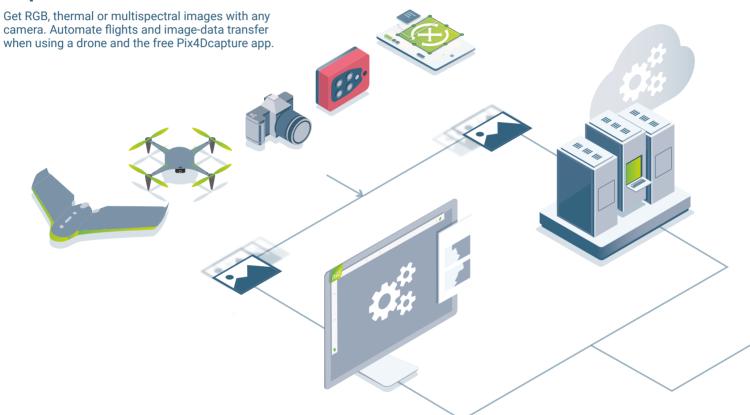
360° camera images .jpg, .tif



Videos .mp4,.mov, .wmv, .avi

Workflow

Capture

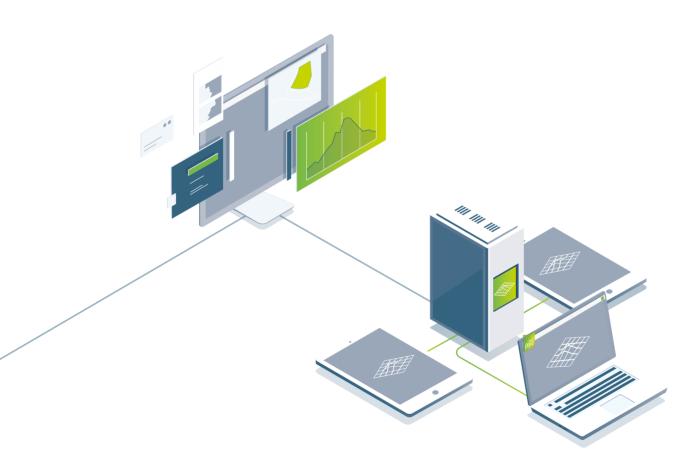


Digitize

Pix4Dmapper transforms your images into digital models and maps. Seamlessly process your projects using our cloud or your local computer.

Control

Assess and improve the quality of your project thanks to the detailed quality report and the $rayCloud^{\text{TM}}$ environment.



Measure & inspect

Measure distances, areas and volumes, extract elevation profile and perform virtual inspections.

Collaborate & share

Selectively and securely share project data and insights with your team, clients and suppliers.

Pix4Dmapper on desktop

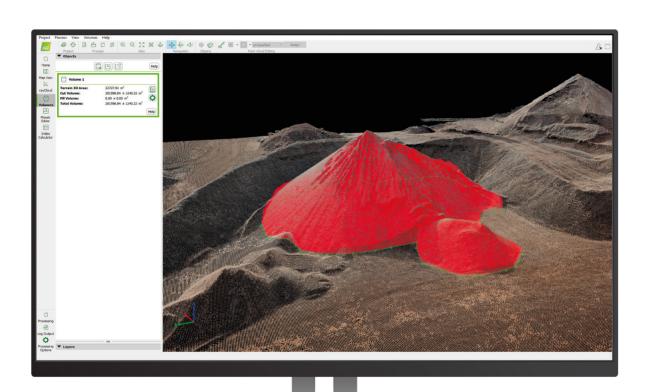


rayCloud ™

The power of understanding photogrammetry

A unique environment connecting your original images to each point of the 3D reconstruction to visually verify and improve the accuracy of your project.

Create objects and video animations, measure distances and surfaces. Edit your point clouds, add ground control points and manual tie points, define processing areas and more.



Measure

Polyline and surface

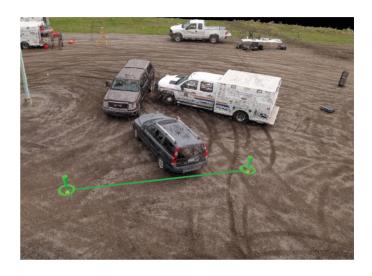
Measure distances and areas by setting vertices in the 3D model and in the original images.

Volume

Measure volumes in 3D with a fully-adjustable base height.

Scale

Assign a custom scale to non-georeferenced projects for accurate measurements.







Improve visual integrity

Orthomosaic editor

Create and edit regions in the orthomosaic. Choose the best content from multiple underlying images to remove moving objects or artifacts.



Unlock the full potential of multispectral data

Index calculator

Create and customize index maps using multispectral imagery with radiometric accuracy.

Produce application maps by integrating the results, such as prescription maps, into all major farm management software.

Flatten & smooth surfaces

DSM and mesh editing

Create surfaces to improve planarity or fill holes in critical areas.



Automatically uncover insights

Automatic point cloud classification

Pix4Dmapper's machine-learning algorithms identify and label points, grouping them into classes to distinguish ground from roads, vegetation, buildings, and man-made objects.

Manual control

Point cloud editor

Manually remove noise or unwanted elements, crop a project to focus on an area of interest, or classify objects.

Additional features

- · Project merging / splitting
- Detailed quality report
- Error ellipsoid displaying MTP/GCPs accuracy in 3D
- · Rolling shutter correction
- · Scale and orientation constraint
- Image masking for disregarding invalid pixels among all images
- · Object creation and digitization
- · Tiled Level-of-Detail (LoD) mesh
- · Import LIDAR point clouds for DSM generation

- Automatic DTM generation
- Orthoplane for creating orthomosaic of any plane/facade
- Radiometric adjustment to generate accurate index and thermal maps
- Custom indices for raster computation based on reflectance values
- · Multi-core CPU processing
- GPU-accelerated processing
- · Fly through video

Recommended Hardware Specs



CPU: quad-core or hexa-core Intel i9/Xeon



GPU: compatible with OpenGL 3.2 and 2 GB RAM



RAM: 16GB - 64GB



OS: Windows 8, 10 64 bits

Pix4Dmapper on cloud





Expand your processing capabilities with Pix4D Cloud

Process more projects, faster by taking full advantage of Pix4D Cloud processing resources. Continue using your local machine with no interruptions.



Highlight findings

Leverage the link between the 3D reconstruction and your original 2D images with the virtual inspector. Identify a point of interest in the 3D view and highlight critical elements in the original images, add descriptions or even attach external URLs.



Annotate & export

Pinpoint objects, measure distances, surfaces, volumes and elevation profiles. Export quantitative, geometrical and geolocation data at the click of a button.



Collaborate & share

Streamline and speed up project communication and teamwork. Securely share project data and insights with your team, clients, and suppliers via a link.

Outputs



Full-color point cloud .las, .laz, .ply, .xyz



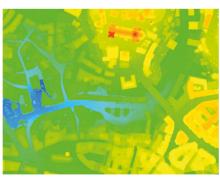
Classified point cloud .las, .laz



3D textured mesh .ply, .fbx, .dxf, .obj, .pdf Level-of-detail mesh in .osgb, .slpk



Digital Terrain Model (DTM)/ GeoTiff (.tif)



Digital Surface Model (DSM) GeoTiff (.tif), .xyz, .las, .laz



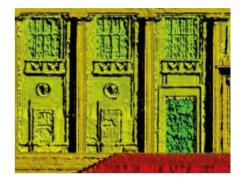
Contour lines .shp, .dxf, .pdf



Orthomosaic GeoTiff (.tif), .kml



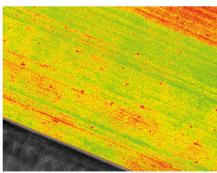
Facade orthomosaic GeoTiff (.tif)



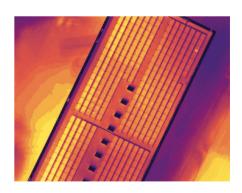
Facade digital surface model GeoTiff (.tif)



Reflectance maps GeoTiff (.tif)



Index maps GeoTiff (.tif), .shp



Thermal maps GeoTiff (.tif)



Teach and learn with Pix4Dmapper



Teach with Pix4Dmapper

Educational licenses

Teach, learn and research the future of photogrammetry and mapping with Pix4Dmapper educational licenses tailored to schools and universities.

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