PIX4D

The latest from Pix4D:

Meet the viDoc RTK rover.

From digital sensors to critical information

Pix4D provides leading software and hardware solutions that convert images taken by hand, by drone, or by plane into accurate and georeferenced 2D maps, 3D models, point clouds for analytics.

Pix4D is where you are

R&D and commercial offices

- Switzerland
- Germany
- Spain
- U.S.A.
- Japan
- China
- Romania

Commercial presence

- France
- Italy
- United Kingdom
- India

Including 140+ resellers worldwide

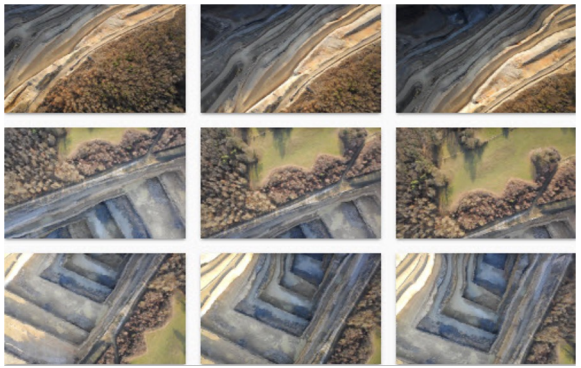
What is photogrammetry?

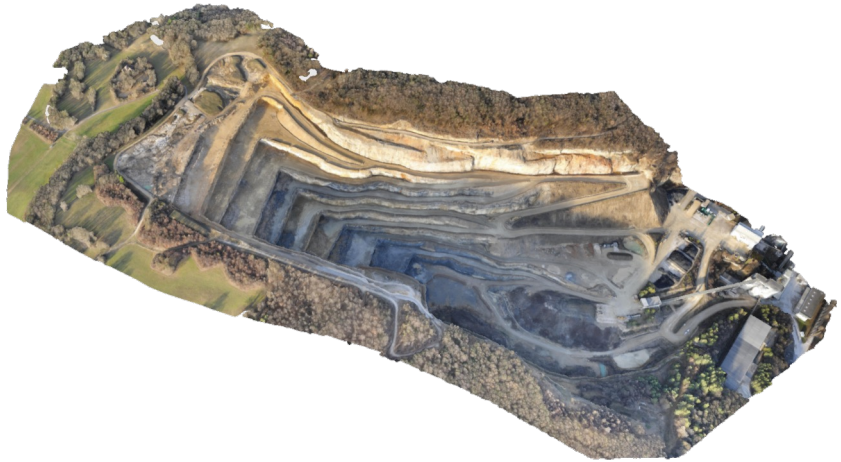
"Evolution favors eyes that perceive the world in 3D"

Dr Christoph Strecha,

Co-Founder and CEO of Pix4D

What is photogrammetry?





Pix4D software and hardware solutions

Software applications (desktop and cloud)

PIX4Dmapper PIX4Dmatic PIX4Dsurvey PIX4Dfields PIX4Dreact PIX4Dinspect PIX4Dcloud PIX4Dengine

Mobile applications

PIX4Dscan PIX4Dcatch PIX4Dcapture

Hardware

CraneCamera viDoc®

viDoc RTK Rover

Elevate 3D scanning with the power of RTK and photogrammetry on a mobile device

viDoc® PIX4Dcatch

digital BAU Digital Bau Innovation **Award Winner**

BUREAU VERITAS Certification Accuracy Certified By **Bureau Veritas**

Ground data collection: challenges

- Capturing ground data is mainly dependant on laser scanners, handheld rovers, or drones.
- Laser scanners are highly accurate, but are **expensive** and **not easily portable**
- Handheld rovers deliver **sparse TIN meshes**
- Drones require **permissions** and are **difficult to fly in some areas**, e.g urban locations
- Laser scanners, handheld rovers and drones require **strong expertise**

PIX4Dcatch

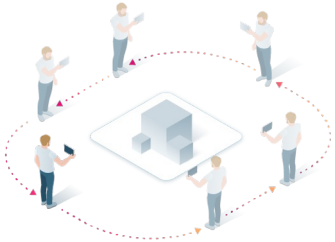
3D from your pocket

- No Drone
- LiDAR + images

viDoc®

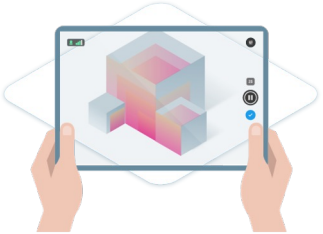
- Antenna GNSS RTK
- Single Point Measurement
- iOS / Android compatible

How to capture data with PIX4Dcatch



Scan the area of interest

Walk slowly around or along the area of interest. PIX4Dcatch automatically records images with position and orientation information.



Get a live preview

Thanks to augmented reality, visualize the point cloud created in real-time to guide you on the coverage (only on phone with LiDAR/ToF sensors).

Process

Upload the project to PIX4Dcloud or export them to PIX4Dmatic or PIX4Dmapper to generate accurate and easy to share 3D models and point clouds. Measure distances, areas, and volumes, and perform virtual inspections.

Main Applications

Catering to multiple industries

Public works

- Utilities mapping
- Road infrastructure
- Site assessment and planning

Construction

- Stockpile volume calculation
- 3D digital inventory

Public Safety

- Forensics
- Accident reconstruction
- Fire safety and assessment

PIX4Dcloud

The online platform for ground and drone mapping, progress tracking, and site documentation

Key benefits

Accurate results

Rely on Pix4D's processing algorithms to get the survey-grade results you expect. Choose the AutoGCPs feature for even greater accuracy.

Analysis made easy

Get an instant view of any jobsite from anywhere, on your browser, in 2D and 3D, with results you can measure, explore, compare, share and collaborate on.

Up-to-date documentation

Keep a permanent and up-to-date record of the project and resolve disputes efficiently.

How does it work?

Capture Process Analyze Share Integrate

Features

Timeline analysis

Easily scroll over time to visualize, measure, and track onsite changes in 2D and 3D at all stages of a project for more efficient project execution.

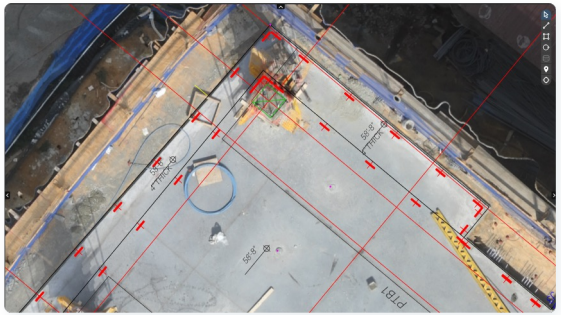
2D/3D comparison over time

Get detailed day-to-day comparisons of your 2D or 3D data, overlaid design drawings or IFC files to spot changes and verify site progress.

Create accurate measurements

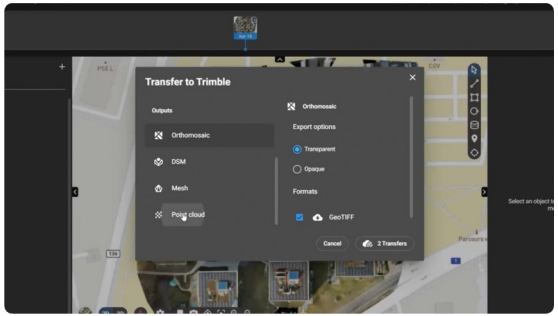
Perform quick and precise volume calculations and compare them over time.

Features



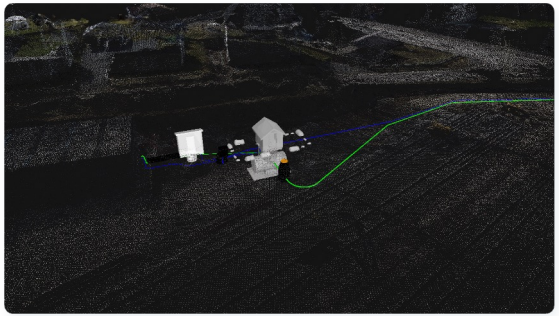
Instantly compare as-built vs as-designed

Overlay your design plans, and maps and compare as-built to as-designed to identify build errors early on and avoid costly rework.



Seamlessly integrate data into Trimble Connect

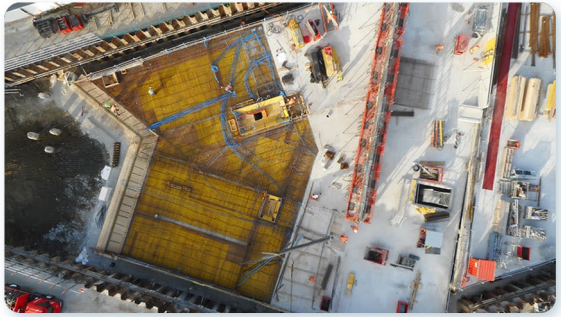
Easily data transfer to the Trimble Connect data-sharing platform from the Pix4D interface and keep everyone up-to-date.



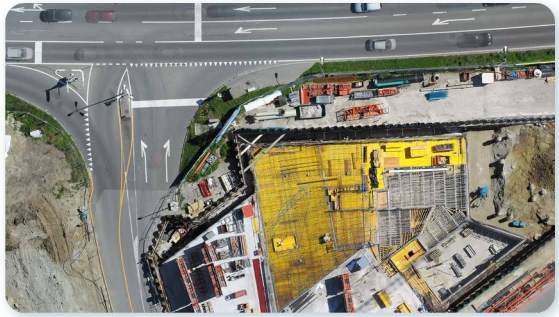
Import BIM models

Import your IFC files to get a better understanding of the as-is vs as-built and plan ahead of time.

Outputs

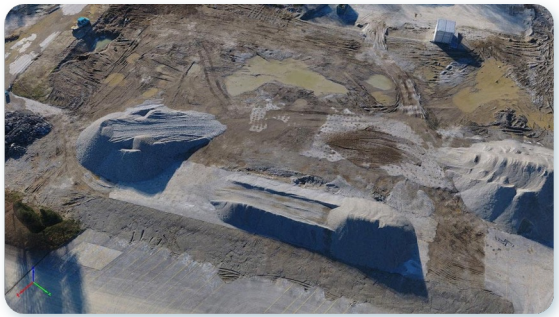


Original high-res images



2D orthomosaic

3D point cloud

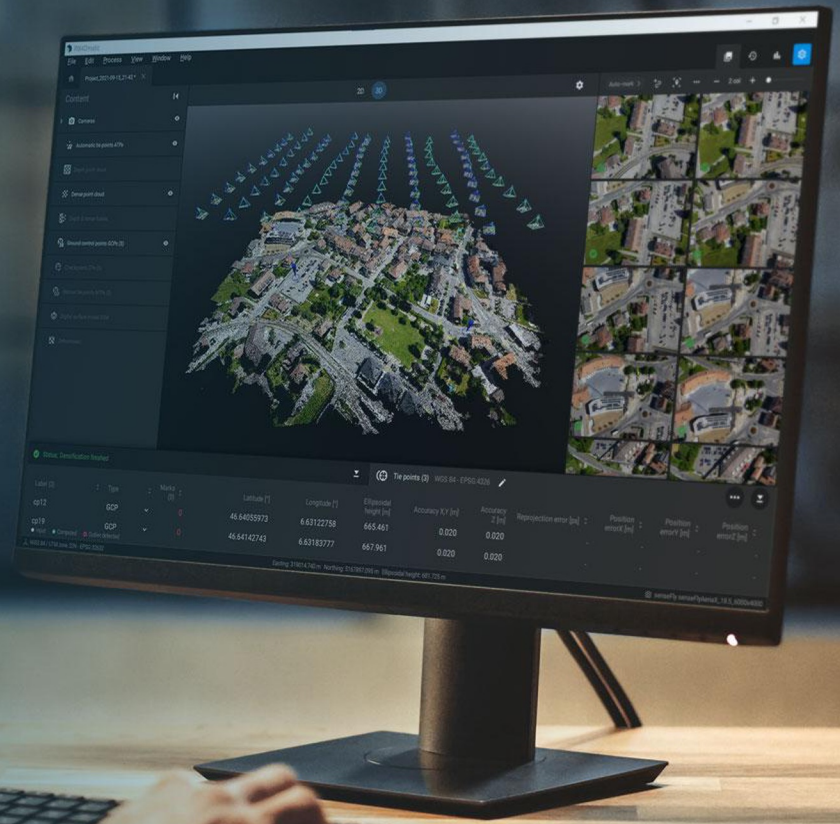


3D textured mesh

DSM

PIX4Dmatic

Next-generation photogrammetry software for terrestrial, corridor and large scale mapping.



Why PIX4Dmatic?

- Expand your business to corridor, large scale and terrestrial projects;
- Be more competitive with 2x time savings on large scale projects;
- Easy to learn and to get started. Low switching costs;
- Leverage the benefits of both photogrammetry and LiDAR technology for terrestrial projects;

Are you ready to go big?

The optimized software for the next surveying and mapping challenges

Bigger datasets, accurate results

PIX4Dmatic processes thousands of images while maintaining survey-grade accuracy, halving the time it takes to create a point cloud from images, without the trouble of splitting and merging projects.

Fully automated processing

Developed in close-collaboration with surveyors and mapping professionals to streamline your workflow: import, process, and assess the quality of a project in just a few clicks and move seamlessly from PIX4Dmatic to PIX4Dsurvey.

Terrestrial workflow

Leverage the benefits of both photogrammetry and LiDAR technology. Process LiDAR and RGB image outputs from PIX4Dcatch for a full terrestrial workflow. Easy and desktop-based.

Essential outputs

Orthomosaic

DSM

Point cloud

Mesh

Our local partners

- Booth No. 37
- Location Delhi
- Expertise in GIS Industry, Aviation, AI, Robotics.
- Contact person: Kamal Sharma
- kamal@kambillsystems.com

- Booth No. 47
- Location: Noida
- Expertise in Drone manufacturing, GIS Industry and Education Industry
- Contact Person: Paras Jain
- Paras@indowings.com

India Sales representative:

Role with Pix4D:
Business Development/Channel partner management for the India region.

Back ground:
Mechanical Engineering with MBA having 14 years of rich work experience in Aviation/Drones/Business Development, and Public Policy.

Email: mitul.arora@pix4d.com

Thank you

pix4d.com/contact-us