

# Survey-grade 3D Modelling with RTK Accuracy on a Mobile Device



Pix4D has announced commercialization and worldwide exclusive distribution of the viDoc RTK rover, enabling ground-based RTK-grade 3D scanning with iOS mobile phones and tablets through the Pix4Dcatch app. Pix4D is one of the industry leaders in photogrammetry.

Conceived by [viGram GmbH](#), a German company led by professional surveyors, the viDoc RTK rover is designed with an eye for accuracy and works with Pix4Dcatch for image acquisition. The hand-held RTK rover is a replacement for more expensive ground surveying equipment that does not compromise on accuracy to achieve 3D, actionable results.

The viDoc RTK rover, synchronized with Pix4Dcatch, geotags the images of a 3D scan in real time, while connected to any NTRIP service. Extensive research has revealed that it is possible to achieve 3D models with an absolute geolocation accuracy of less than 5cm.

## Photogrammetry and Lidar

[Christoph Strecha](#), founder and CEO of Pix4D, commented: "We are happy to see how Pix4D algorithms complement consumer tech to achieve professional-grade results. This was the case with drones a few years back. Now it's the turn of mobile devices, allowing professionals to digitize the world and turn it into accurate 3D models at a fraction of the price. The new solution combines RTK accurate image tagging with photogrammetry and Lidar (for Lidar-enabled mobile devices) processing."