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## **DotProduct debuts Phi.3D V2.0 at INTERGEO—enables real-time stitching of multiple point cloud scenes on a handheld mobile imager**

BERLIN, GERMANY, 7 October, 2014 - DotProduct debuts Phi.3D V2.0 at INTERGEO this week. Phi.3D software powers the DotProduct DPI-7 handheld mobile imager kit. The new release delivers features that early adopters of the DPI-7 have been requesting: the capability to capture much larger point cloud scenes and to take measurements right on the tablet. Other V2.0 enhancements include patent-pending technology for using AprilTags to help accelerate global scene optimization and image-based rendering (IBR) for higher quality point cloud visualization. The user interface has also been overhauled to make navigation much more intuitive. DotProduct CMO, Tom Greaves, and CTO, Rafael Spring, will be on-site at INTERGEO, Hall 1.1, Stand D.1.012, providing live demonstrations and answering questions about the upcoming release. Phi.3D V2.0 is currently in beta and is scheduled for release later this quarter.

“Phi.3D V2.0 is a breakthrough,” says Greaves. “Our developers have upended mobile data capture and processing with this new release. Using our improved, patent-pending Append technology, we can now capture and automatically register multiple scans on the tablet. This enables the capture of significantly larger areas and even multiple rooms on the DPI-7—right in the field, eliminating tedious and schedule-eating back office or cloud processing.”

What this means in practice is that scene size is no longer a constraint during capture or in DotProduct’s unique Append function, which allows new point cloud data to be appended to previously captured data. New data is automatically stitched to existing data in the same coordinate system. The new release also supports AprilTags, a visual fiducial system designed for high localization accuracy, which provides tighter registration of multiple or large scenes in Phi.3D V2.0. “Our customers have also been asking for measurement tools right on the tablet—we’ve also got that now,” says Greaves.

Other Phi.3D V2.0 enhancements include support for the most commonly used tablet/mobile chipsets including NVIDIA Tegra 3, 4, K1, Qualcomm Snapdragon S4, 2xx to 8xx, Samsung Exynos / Mali GPU and Intel Core. The new release also supports the Intel RealSense camera.

### **About DotProduct**

Founded in 2012, DotProduct develops high performance, easy-to-use solutions for capturing 3D data on handheld tablets. Its flagship Phi.3D software is delivered via the DPI-7 mobile handheld 3D imaging kit, as well as through licensing to OEMs and partners. Current use cases for Phi.3D and the DPI-7 range from 3D construction documentation to industrial facility management, crime scene mapping, accident investigation, and various as-built BIM workflows. Customers across a wide variety of industries use 3D data to mitigate project execution risk and contain costs and schedules. (<http://www.dotproduct3d.com>).

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