

DOT PRODUCT

DPI-8X SR Powered by Phi.3D and Dot3D Software

Handheld 3D Data Capture on a Tablet

DotProduct develops high performance easy-to-use solutions for capturing 3D data. Our technology is designed for mobile professionals who need high quality spatial data, instantly. Our Phi.3D and Dot3D software turns an Android tablet into a fully mobile 3D-capture and -processing solution that delivers the results before you leave the worksite.



Next Generation Mobile 3D Scanning Software

- » Capture and register 3D spatial data on the processing power of a tablet – no PC or cloud service required!
- » Define the coordinate system on the tablet, append multiple datasets in the field, pull measurements on the fly, and easily implement targets for the highest level of accuracy.

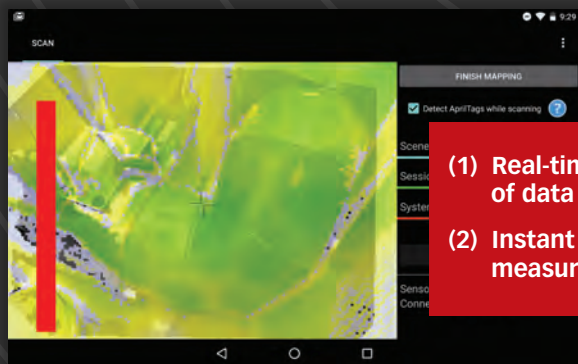
Truly Mobile

- Forget lugging around a laptop and cumbersome cables
- » Capture and process 3D spatial data directly on the tablet!
 - » Safely capture difficult areas with one or two hands.
 - » Crop, measure, annotate and more with Dot3D Edit.
 - » Get into hard-to-reach, occluded areas, inaccessible with other technologies.

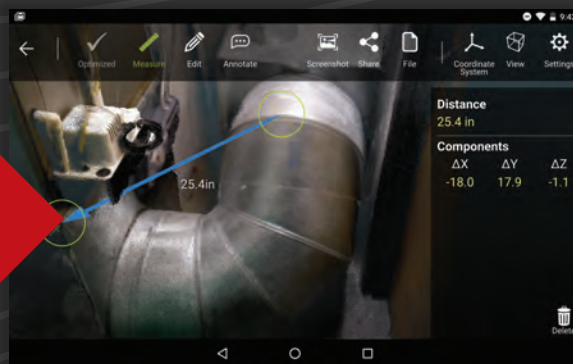
Real-Time Results

- » No surprises: leave the jobsite knowing you've collected the right data you need for your project.
- » Phi.3D technology provides users with real-time data quality feedback as the data is being acquired.
- » Instantly review point cloud datasets right on the tablet.

New Technology – Familiar and Proven Work Flows



- (1) Real-time color coding of data quality
- (2) Instant data review, measurement and more!



Georeference, Measure, Crop, and Annotate in the Field

- » Set the coordinate system on the tablet in seconds.
- » Measure vertical, horizontal, and point-to-point distances directly from the data on the job site.
- » Crop, annotate, and take precise measurements in the new Dot3D Edit software on Android or Windows.

Append Multiple Data Sets Together Automatically

- » Use the Append to Scan function to add new data to previously captured 3D spatial data. New data can be captured and appended on-the-fly without the need for additional targets or control.
- » Utilize the Append to Add function to connect multiple distinct data sets into the same coordinate system on the fly.

Direct Export to Industry Formats

- » Use DPI-8X captured data with the desktop point cloud software you work with today. No need to change your current workflow.
- » Export in PTS, PTX, PLY, PTG, E57, or the native DP format for efficient storage and rapid data export. Binary files integrate directly with Autodesk ReCap, Leica Cyclone, Trimble Realworks, Z+F LaserControl, ClearEdge3D, LFM, Bloom CE, CloudCompare, InfiPoints, PointCab, Pointfuse, 3D Reconstructor, Rhino, Sequoia, Undet, Visual Statement, WorldViz, and many more.

Test Facility Results

(measured distance in final post-processed model)

| Range | Typical Accuracy | Minimum Accuracy |
|-----------------------|------------------|------------------|
| < 1 m (3.3 ft) | 99.8% | 99.6% |
| 1 m to 2 m (6.6 ft.) | 99.5% | 99.2% |
| 2 m to 3.3 m (11 ft.) | 99.0% | 98.6% |
| > 3.3 m (11 ft.) | Not Specified | Not Specified |

DPI-8X SR Compatible Accessories

Extension Kit, Light Kit, AccuScale-DP Scale Bar Kit, InfiPoints-DP

DPI-8X SR Handheld 3D Scanner Performance

The data quality of the DPI-8X SR depends on range, temperature, ambient lighting conditions, reflectivity of the area of interest, operator skill and other factors. System accuracy is improved by using survey targets. System performance is degraded by long collection times, accumulation of frame-to-frame drift and lack of scene fitness induced by geometry and texture limitations.

The working range of the DPI-8X SR is from 0.3 m to 2 m (1 ft – 7 ft).

Illustrations, descriptions and technical specifications are not binding and may change.

| DPI-8X SR Product Specifications - General | |
|--|---|
| Imager type | Compact, near infrared structured light and RGB 3D depth imaging system |
| User Interface | Android operating system |
| Data Storage | Onboard 16 GB flash drive |
| Data Transfer | USB 2.0/3.0, microUSB connector |

| DPI-8X SR Product Specifications - Physical | |
|---|---|
| Mass | 1.36 kg (3 lbs.) |
| Dimensions | 25 cm x 15 cm x 8 cm (10 in x 6 in. x 3 in.) |
| Temperature | Tested operating range: 15 °C to 32 °C (60 °F to 85 °F) |
| Lighting | Not operational in direct sunlight |
| Humidity | Non-condensing |

The DotProduct DPI-8X SR Handheld 3D Scanner contains:

- 1 8" Android Tablet computer with at least 16GB of storage (DotProduct reserves the right to provide greater than 16GB depending on availability)
- 1 License of DotProduct Phi.3D software, preloaded and licensed to that tablet computer and camera. One year of support and upgrades included
- 1 PrimeSense Carmine 1.09 red, green, blue and depth sensor
- 1 One-year license of Dot3D Edit software (Android or Windows)
- 1 DPI-8X dual-grip housing for Android tablet and sensor
- 3 USB to micro USB connectors for connecting camera to tablet
- 1 Carrying case
- 1 Tablet charger



Please feel free to contact us for more details about our calibration and test procedures.

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