

Leica Cyclone & DotProduct handheld scanners

Enhanced productivity



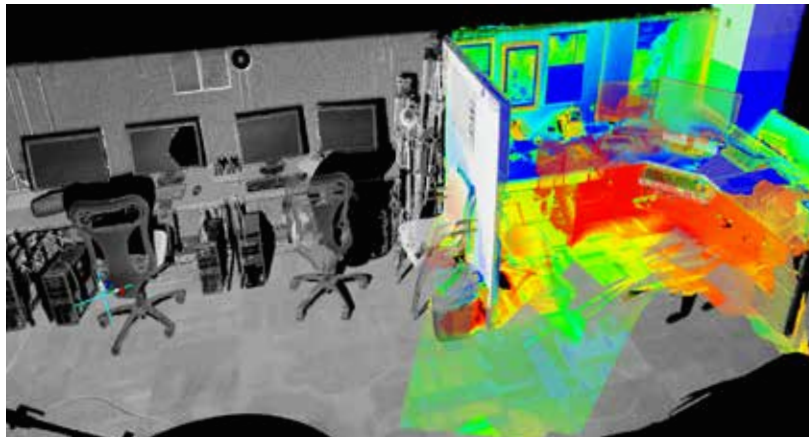
Augmented workflow

Leica Geosystems and DotProduct offer an augmented workflow solution to deliver enhanced productivity with minimum field setups and reduced overall project costs. Using DotProduct's handheld scanners, professionals can capture and integrate hard-to-reach or obstructed objects with ease. Be it as a standalone 3D data capture tool or for additive infill, users can capture handheld data and then utilise Cyclone for powerful analysis.

Enhanced productivity in Cyclone

Leica Cyclone directly imports DotProduct 3D data, providing the complete end-to-end workflow offered by Leica Geosystems HDS™ software for deliverables creation. Users can take full advantage of Cyclone's capabilities like its best-in-class registration tools or survey workflows. Once in Cyclone, the DotProduct data can migrate downstream to utilise the CloudWorx plugins for CAD and BIM applications, or easy dissemination and collaboration via TruView and TruView Global.

Product specifications



Augmented Capture
This image shows Leica ScanStation P40 data from an office, shown in grayscale intensity, registered in Cyclone with DotProduct DPI-8 handheld data, shown in multihue intensity. The DotProduct data was used to capture inside a cubicle space, otherwise partly obstructed from the P40's viewpoint.

DotProduct DPI-8 and Phi.3D

The DotProduct DPI-8 uses DotProduct's Phi.3D software to turn an NVIDIA SHIELD Android tablet into a fully mobile 3D capture and processing solution.

Capture and process 3D spatial data directly on the tablet. The solution consists of a PrimeSense structured light infrared and RGB camera device, combined with DotProduct's Phi.3D software onboard the tablet. Phi.3D provides real-time data quality feedback during acquisition, with instant review of the point cloud on the tablet. Leave the jobsite knowing you've collected the right data.

Data quality of the DPI-8 imager depends on range, temperature, ambient lighting conditions, reflectivity of the area of interest, operator skill and other factors. The use of survey targets and on-board tablet optimization improve accuracy.

DPI-8 OPERATING RANGE

- 0.6 - 3.7 m

DPI-8/PHI.3D ACCURACY

- Table shows measured distance accuracy in post-processed model

Range	Typical Accuracy	Minimum Accuracy
< 1 m	99.8%	99.6%
1 m to 2 m	99.5%	99.2%
2 m to 3.3 m	99.0%	98.6%
>3.3 m	Not Specified	Not Specified

TARGETING

- Identify and name black and white targets within Phi.3D software

DPI-8 IMAGER TYPE

- Near infrared structured light and RGB 3D depth imaging system

DPI-8 USER INTERFACE

- Android Operating System

SLAM

- Scanner position computed with Simultaneous Location And Mapping (SLAM), tracking common geometric features (30 Hz)

DPI-8 PHYSICAL SPECIFICATIONS

- < 1 kg
- 23 cm x 27 cm x 8 cm

EXTERNAL LIGHTING

- Not operational in direct sunlight

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Leica ScanStation P30/P40



Leica ScanStation P16



Leica Cyclone REGISTER



Leica CloudWorx for AutoCAD

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- when it has to be **right**

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