

# DPI-8 Handheld Scanner

WITH POWERFUL 3D DELIVERABLES AND COMPREHENSIVE DATASETS, SCANNING TECHNOLOGY IS BECOMING COMMONPLACE ON JOB SITES AROUND THE WORLD. FOR MANY CONTRACTORS, THE BENEFITS ARE UNDERSTOOD, BUT THE COST AND COMPLEXITY OF TRADITIONAL LASER SCANNING AND PHOTOGRAMMETRY HAVE MADE IT DIFFICULT TO INCORPORATE SCANNING INTO DAILY WORKFLOWS. WITH THE INTRODUCTION OF THE DPI-8 HANDHELD SCANNER, LASER SCANNING FOR CONTRACTORS JUST GOT A WHOLE LOT EASIER.

The DPI-8 Handheld Scanner lowers the barrier to 3D scanning for the construction market. The self-contained, lightweight design with a high-resolution camera sensor and powerful Android tablet allows one-hand operation for improved accessibility, speed and safety while

acquiring data on site. The solution is powered by DotProduct's Phi.3D software, which provides users with real-time data quality feedback and makes it simple for novice field personnel to produce dimensionally accurate color point clouds directly from the field.



## Key Features:

- Append Data Feature:** No need to collect all data in one shot - the user can move between tasks and pick up where they left off.
- Simple and Intuitive Workflow:** Reduce the learning curve for new users.
- Real Time Data Quality Feedback:** Users can validate data quality in the field reducing the need for return trips.
- One Hand Operation:** Whether it's capturing difficult to reach areas or just keeping one hand free for stability, the DPI-8 has a form factor made for contractors.
- Compatible Data Formats:** Combine with traditional laser scan data to augment static scans and reduce the need for traditional tripod mounted laser scanners.

## Keeping the Project and Costs on Track

Need a quick assessment of the progress in the field? The DPI-8 is portable, quick and easy to use. Just about anyone on the jobsite can pick it up and make sure that things are where they should be and also recognize any issues that could cause future workflow problems. The DPI-8 will even alert users when the data quality is not satisfactory and instruct them how to fix it. Specialized compression processes reduce the size of data files to simplify the process of sharing data with key stakeholders on a project.



## Safety First

Jobsites are busy places with lots of hazards to look out for. The DPI-8 only requires one hand to operate the system, so whether you're scanning a stairway or up on a ladder, you always have one hand free to keep yourself safe.

## A Better Way to Document Your Project

Are you using your cell phone or a camera to document issues on the jobsite? Let the DPI-8 handheld scanner document it instead to capture actionable data you can share. With the Append Data feature, you don't have to collect your data in one session. You have the freedom to move between tasks and feel confident that you can pick up where you left off.

## Currently Using a Tripod Scanner?

The DPI-8 can add to your scanning arsenal by augmenting your tripod scanner data and reduce the need to acquire highly detailed and time consuming scans with your static scanner. With its small size it can also get into tight spots like plenum spaces that traditional scanners can't reach. Once the data is captured it can be brought into Trimble RealWorks and merged with your original static scanner data for evaluation and assessment.

### PRODUCT SPECIFICATIONS

<b>Screen Size:</b>	8 inch
<b>Device Size:</b>	20 cm x 24 cm x 6 cm
<b>Interfaces:</b>	USB, WiFi, 3G
<b>Capacity:</b>	16 GB or 32 GB
<b>Export Formats:</b>	DP, PTS, PTX, PLY
<b>Sensor Range:</b>	60 cm to 5 m (2 ft to 15 ft)
<b>Op. Temperature:</b>	5°C to 40°C (41°F - 104°F)
<b>Horizontal FOV:</b>	57.5 degrees
<b>Point Density:</b>	≤ 1.7mm at 1m distance ≤ 3.4mm at 2m distance
<b>Power Supply:</b>	Using tablet battery

### DPI-8 PRODUCT SPECIFICATIONS – GENERAL

<b>Imager type</b>	Compact, near infrared structured light and rgb 3D imaging system
<b>User Interface</b>	Android 4.4/Android 4.2 operating system
<b>Data Storage</b>	Onboard 16 GB or 32 GB flash drive
<b>Data Transfer</b>	USB 2.0/3.0, microUSB connector

### DPI-8 PRODUCT SPECIFICATIONS – PHYSICAL

<b>Mass</b>	<1kg (2.2 lbs)
<b>Dimensions</b>	20 cm x 24 cm x 6 cm (8 in x 9.5 in x 2.4 in)
<b>Temperature</b>	Tested operating range: 15°C to 32°C (60°F to 85°F)
<b>Lighting</b>	Not Operational in direct sunlight
<b>Humidity</b>	Non-condensing

RANGE	TYPICAL ACCURACY (RMS)	MINIMUM ACCURACY
< 1 m (3.3 ft)	0.2%	0.4%
1 m to 2 m (6.6 ft)	0.5%	0.8%
2 m to 3.3 m (11 ft)	0.8%	1.2%
>3.3 m (11 ft)	Not specified	Not specified