

PX-80

Paracosm's PX-80 is a compact laser scanner with inertial sensors and a color camera to enable rapid collection of colored point cloud data. Balancing speed, range, and accuracy, this versatile scanner makes it possible to document challenging environments. It delivers a complete 3D point cloud and image data set, bringing productivity for BIM to the next level while making data capture a seamless and natural part of the construction process.



PX-80 BUNDLE

The 1st edition PX-80 bundle includes our breakthrough mobile LiDAR scanner, a hard shell protective carrying case, scanning and processing software applications plus our custom desktop point cloud registration software. First edition customers will receive hassle-free upgrades on all future software and hardware updates.

SENSOR PLATFORM

Weight	2.2 kg
Size	30 x 19 x 13 cm
Data Transfer	USB Port

CAMERA SENSOR

Number of cameras	1
Pixel size	3.45 x 3.45 microns
Maximum frame rate	50 fps - ~320 M pixels/sec
Coverage	250° x 360°

SCANNER

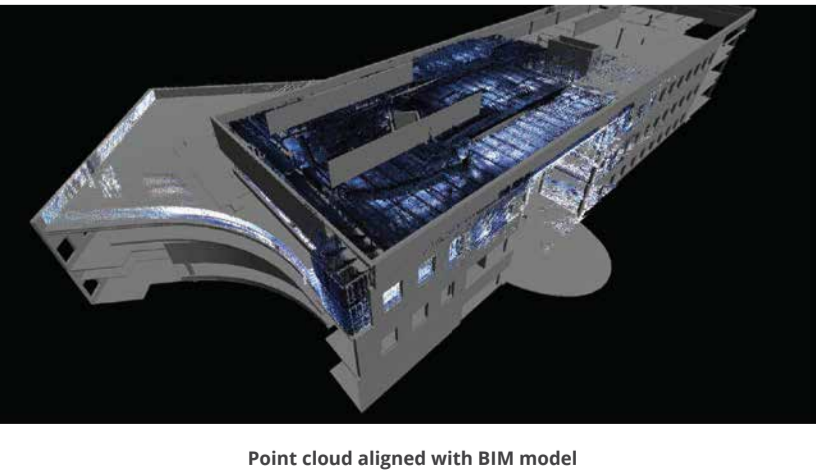
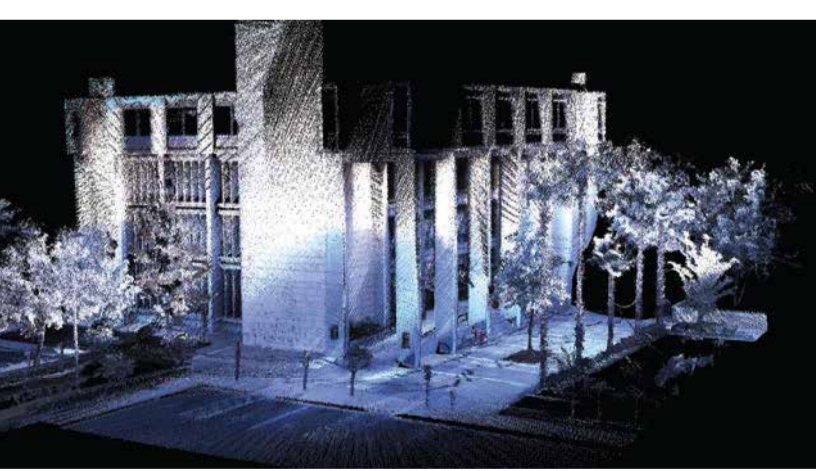
Type	Velodyne VLP-16
FOV horizontal / vertical	360°/30° (±15°)
Acquisition	300,000 pts/sec
Range	Usable range: 100 m
Use Environment	Indoor & Outdoor

RESULTS

- Colored point cloud data
- 250° color photosphere
- Formats: .las and .ply
- 2 cm - 3 cm relative accuracy

A variety of factors can negatively influence a trajectory accuracy including: small rooms/hallways, extremely smooth/blank surfaces, and fast vertical movement (elevators are not supported). Under typical indoor conditions, the lower range of the accuracy specification can be achieved.

Point cloud of city block, captured in minutes



Point cloud aligned with BIM model

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