

PARACOSM 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

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.

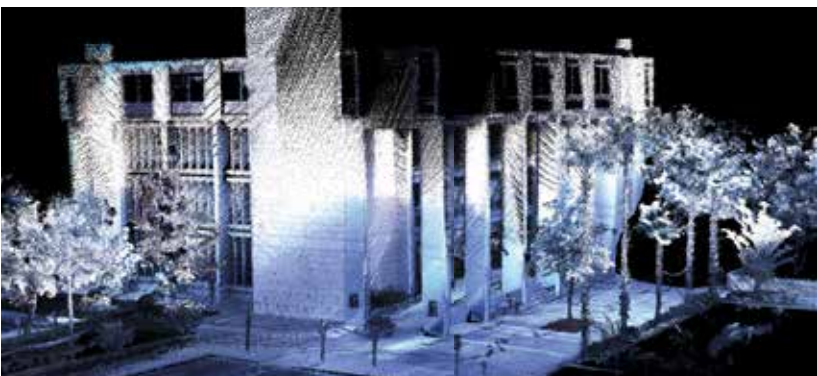


CAMERA SENSOR

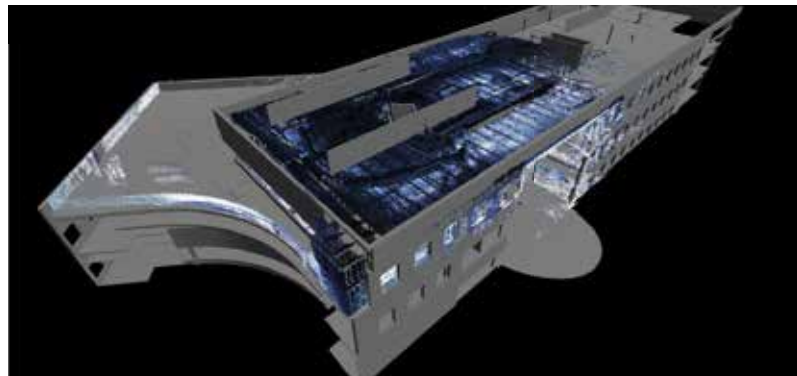
Number of cameras	1
Pixel size	3.45 x 3.45 microns
Maximum frame rate	50 fps - ~320 M pixels/sec
Coverage	250° x 360°

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



Point cloud of city block, captured in minutes



Point cloud aligned with BIM model