

# PARACOSM PX-80



PX-80 is a compact hand-held laser scanner capable of full 6-DoF positional tracking. PX-80 uses Paracosm's proprietary SLAM technology which is a unique fusion of LiDAR, color imagery, and Inertial Measurement Unit (IMU) data. This fusion makes our scanner robust and reliable in a variety of environments. The PX-80 automatically produces point clouds in full color and generates spherical images which can be used for virtual tours.

## Includes

PX-80 Mobile LiDAR Scanner  
PX-80 Capture  
Apple iPad mini 4 & Protective Case  
iPad Pole Mount  
19.5 V Power Supply  
Extension Rod  
Seahorse 540 Waterproof Storage Case

**Note:** Accurate scans are captured by using a steady and smooth walking pace. A variety of factors can negatively influence tracking, including: rotating 6-DoF very quickly (fast 180° turns), extreme motion in the environment (a few people or vehicles in an open space are not a problem, however, scanning in a narrow hallway with multiple people is not recommended).



Colorized point cloud captured by PX-80

⚠ CLASS 1 LASER PRODUCT

## Specifications

### SCANNER

Weight	7 lbs
Height	28 cm
Diameter	17 cm
Extension rod	18-36 in

### COLOR CAMERA

Resolution	1024 x 768
Maximum frame rate	50 fps - ~320 M pixels/sec
Coverage	250° x 360°

### LIDAR

Accuracy	±3 cm
Type	Velodyne VLP-16
FOV horizontal / vertical	360°/30° (±15°)
Acquisition	300,000 pts/sec
Range	0.5m - 100m
Environment	Indoor / outdoor

### OUTPUT

- RGB colorized .LAS and .PLY
- Photosphere images
- Transfer data through USB