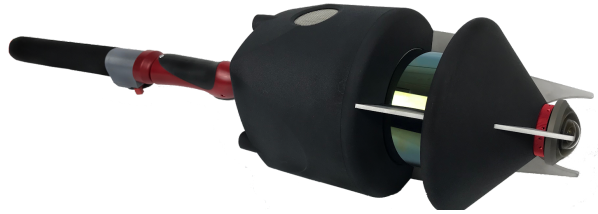


PARACOSM

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 viewed in Retrace.

PX-80 Includes

PX-80 LiDAR scanner & built-in processing software	1 18V power supply
Capture: iPad scanning app	1 extension pole
Apple® iPad mini™ 4, protective case, & pole mount	1 hardshell storage case
Retrace: Windows desktop image viewer	1 year hardware & software service plan

Specifications

Scanner

Weight	7 lbs
Height	28 cm
Diameter	17 cm
Extension rod	46-91 cm

Color Camera

Resolution	1024p x 768p
Megapixels	3.2 MP
Maximum frame rate	50 fps
FOV horizontal / vertical	360° x 250°

Results

Photosphere images (.JPEG)
RGB colorized point clouds (.LAS or .PLY)
Transfer files via USB 3.0

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).

LiDAR

Velodyne VLP-16

Laser type	Class 1 (Eye Safe)
FOV horizontal / vertical	360° x 30° (±15°)
Acquisition rate	300,000 pts/sec
Range	0.5m - 80m
Relative accuracy	2-3 cm
Global accuracy	3-30 cm (10 min scan, 1 loop)
Environment	Indoor/outdoor