

**Engineered for Every Environment and Faster, More Versatile Fieldwork.** 

**See Every Detail:** Unmatched Clarity with Orbis Premium's High-Resolution 8K Imaging

FARO® Orbis Premium delivers vibrant, high-resolution 8K panoramic images and enhanced colored point clouds, providing detailed visual data for engineers, surveyors, urban planners, and public safety professionals. The integration of Flash Technology™ boosts point density in critical areas, accelerating capture times and providing a comprehensive 3D view of sites.

An IP54 rating protects the Orbis Premium from dust and water splashes, ensuring robust performance in rugged environments.



For professionals in surveying, mapping, construction, mining, civil engineering, and public safety, the Orbis Premium offers unmatched productivity, speed, and detail, empowering high-quality results on every project.



## **Specifications**

System Overview		
FARO Orbis	Mobile scanner powered by GeoSLAM technology offering mobile and stationary Flash scanning in one device	
FARO Stream™	Mobile app for field operation of FARO Orbis and FARO Focus Laser Scanner	
FARO Connect	Desktop processing software for FARO Orbis and legacy GeoSLAM mobile scanners	
FARO SCENE	RO SCENE Desktop registration software for all 3D reality capture data	
FARO Sphere® XG	Cloud-based platform for all reality capture data including FARO Orbis	

Performance			
General			
Range	120m		
Points Per Second	640,000		
Field of View	360° x 290°		
No. of LIDAR channels	32		
Camera	Full 360° image of 72M pixels captured every second		
Mobile Scanning			
Precision <sup>1</sup>	5mm		
Trajectory & Mapping	Robust SLAM powered by GeoSLAM technology		
Settings	Automatic Standard and Preset Processing Environments		
Stationary Flash Scanning			
Precision <sup>1</sup>	2mm		
Duration	15 sec. including color		
Resolution	19M points (13mm @ 10m)		
Registration	Real Time and Fully Automatic with GeoSLAM technology		
General			
Environment	Indoor and Outdoor		
Laser Class <sup>2</sup>	Class 1, Eye Safe		
Weight	Scanner: 2.10kg, Datalogger: 0.95kg, Battery: 0.55kg		
Transport Case Dimensions	500mm x 625mm x 250mm		
Operating Temperature	0° to +40°C		
Manufacturer Warranty	1 Year		

Operation			
Stand-alone Operation	One button to start/stop data capture; One button to capture Flash scans		
Smartphone Operation	FARO Stream app (for iOS and Android): scanner control, real-time data visualization, and direct sync to cloud processing with FARO Sphere XG		
Control Points Capture	Stop-and-Go, checkerboard, reflective, and spherical targets for alignment and /or georeferencing		
Advanced Registration	When desired, register multiple mobile, Flash and/or FARO Focus scans		
Configuration	<ul> <li>Handheld with Datalogger on Shoulder Strap</li> <li>Monopod with Scanner and Datalogger mounted together</li> <li>Accessories available: Car Mount, Backpack, Cradle</li> </ul>		
Scanner Orientation	Can be used in any orientation: upright, upside down, sideways		
Battery Duration	Typical 3 hours		
Internal Storage	512 GB, up to 50 hours of continuous data capture		
Data Transfer	WiFi, RJ45 or directly with USB stick		
Data/Processing			
Data	Point clouds with Intensity and Color, 360° Images, Trajectory		
Desktop Processing	FARO Connect for Mobile and Flash Scans, FARO Scene for Advanced Registration		
Cloud Processing	Fully automated with FARO Sphere XG		
Output	Mobile scan: E57, LAS, LAZ, PLY, TXT - Flash scan: E57		

<sup>1</sup> Given as one sigma | <sup>2</sup> In accordance with IEC EN60825-1 | Specifications are subject to change without prior notice





Local operations around the world. Go to **FARO.com** to learn more.

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