

FARO Laser Scanner FocusS 350

The world's most popular terrestrial laser scanner with ultra-high accuracy and ingress protection



Accuracy

The FocusS now captures environments with increased accuracy regarding distance, dual-axis compensator and angular measurement.

Temperature

Extended temperature range allows scanning in challenging environments - take your FocusS to the desert or run a project in Antarctica.

IP Rating - Class 54

With the sealed design, the FocusS is certified with the industry standard Ingress Protection (IP) Rating and classified in class 54 against environmental influences.

HDR Photo overlay

The HDR camera captures detailed imagery easily while providing a natural color overlay to the scan data captured under extreme brightness gradients.

Accessory Bay

With this future-proof interface users can connect additional accessories to the scanner, which offers an option for user specific customization.

Laser scanner for long-range applications

The Focus S series is the latest addition to FARO's popular, compact, lightweight and intuitive laser scanner product line. The devices of this series are the most forward-thinking laser scanners on the market, adding several customer-centric features, such as Ingress Protection Rating (IP54), increased scanning accuracy and range, an internal accessory bay and a built-in on-site compensation routine.

The FocusS 350 combines all benefits from FARO's well-known Focus3D Laser Scanners with today's most innovative features to perform laser scanning in both indoor and outdoor environments - truly mobile, fast and reliable.

The FARO FocusS 350 provides the next level of laser scanning for all applications in industries like Construction, BIM/CIM, Public Safety and Forensics. [3D laser scanner price](#)

Benefits

- Scanning in rough environments while providing protection from dust, debris and water splashes
- Confident data quality through the on-site compensation
- Reality-like scan data by increased distance accuracy and angular accuracy
- Future-proof investment and expandability due to the integrated accessory bay
- Easy handling of scanner control through its large and luminous touchscreen

Specifiactions

Ranging unit

Unambiguity interval: 614m for 122 to 488 kpts/s
307m for 976 kpts/s

Reflectivity	90% (white)	10% (dark-gray)	2% (black)
Range	0.6-350 m	0.6-150 m	0.6-50 m

Ranging noise	@10m	@10m - noise reduction	@25m	@25m - noise reduction
90% reflectivity	0.3mm	0.15mm	0.3mm	0.15mm
10% reflectivity	0.4mm	0.2mm	0.5mm	0.25mm
2% reflectivity	1.3mm	0.65mm	2mm	1mm

Measurement speed (pts/sec): 122,000 / 244,000 / 488,000 / 976,000

Ranging error: ±1mm

Angular accuracy: 19 arcsec for vertical/horizontal angles

3D position accuracy: 10m: 2mm / 25m: 3.5mm

Color unit

Resolution: Up to 165 megapixel color

High Dynamic Range (HDR): Exposure Bracketing 2x, 3x, 5x

Parallax: Minimized due to co-axial design

Deflection unit

Field of view (vertical / horizontal): 300° / 360°

Step size (vertical/horizontal): 0.009° (40,960 3D-Pixel on 360°) / 0.009° (40,960 3D-Pixel on 360°)

Max. vertical scan speed: 97Hz

Laser (optical transmitter)

Laser class: Laser class 1

Wavelength:	1550nm
Beam divergence:	0.3mrad (1/e)
Beam diameter at exit:	2.12mm (1/e)
Data handling and control	
Data storage:	SD, SDHC™, SDXC™; 32GB card
Scanner control:	Via touchscreen display and WLAN connection. Access by mobile devices with HTML5
Interface Connection	
WLAN:	802.11n (150Mbit/s), as Access Point or client in existing networks
Integrated Sensors	
Dual axis compensator:	Performs a leveling of each scan with an accuracy of 19 arcsec valid within ±2°
Height sensor:	Via an electronic barometer the height relative to a fixed point can be detected and added to a scan.
Compass	The electronic compass gives the scan an orientation.
GNNS:	integrated GPS & GLONASS