

Name: FARO Focus 3D Laser Scanner

**Year of Purchase: 2022** 

**Description:** 

FARO Focus Laser Scanner is a compact, lightweight, and intuitive 3D scanning solution designed for both indoor and outdoor applications With features like on-site compensation, HDR imaging, IP54 protection, and extended operating temperatures (-20°C to 55°C), the Focus ensures reliable performance in challenging environments. It offers long-range scanning (up to 350 m, depending on model), real-time data transfer to FARO SCENE software and flexible connectivity via WLAN.

## **Specifications:**

		Ranging Uni	t			
Unambiguity Interval	614m for up to 0.5 mil pts/sec 307m at 1 mil pts/sec 153m at 2 mil pts/sec		614m for up to 0.5 mil pts/sec 307m at 1 mil pts/sec			614m for up to 0.5 mil pts/sec
		Range <sup>1</sup>				
90% Reflectivity (white)	0.6-350m	0.6-150m	0.6-350m	0.6-150m	0.6-70m	0.6-70m
10% Reflectivity (dark-gray)	0.6-150m	0.6-150m	0.6-150m	0.6-150m	0.6-70m	0.6-70m
2% Reflectivity (black)	0.6-50m	0.6-50m	0.6-50m	0.6-50m	0.6-50m	0.6-50m
		Range Noise² (ı	nm)			
@10m 90% (white)	0.1		0.3			0.7
@10m 10% (dark-gray)	0.3		0.4		0.8	
@10m 2% (black)	0.9		1.3		1.5	
@25m 90% (white)	0.2		0.3			0.7
@25m 10% (dark-gray)	0.5		0.5		0.8	
@25m 2% (black)	1.6		2.0		2.1	
Max. Measurement Speed (mil. pts/sec)	Up to 2		Up to 1		Up to 0.5	
Ranging Error³ (mm)	±1			±3		
Angular Accuracy⁴		19 arcsec for vertical/horizontal angles				not specified
3D Point Accuracy <sup>5</sup>	2 @10m 3.5 @25m		2 @10m 3.5 @25m			not specified

## **Additional Performance Specifications**

Color Unit		
Color Resolution	Up to 165-megapixel color	
HDR Camera	Exposure bracketing 2x, 3x, 5x	
Parallax	Minimized due to co-axial design	

Deflection Unit			
Field of View	300° vertical <sup>6</sup> / 360° horizontal		
Step Size	0.009 (40,960 3D-pixel on 360°) vertical / 0.0009 (40,960 3D-pixel on 360°) horizontal		
Max. Scan Speed	97Hz (vertical)		

Laser (Optical Transmitter)		
Laser Class	Laser Class 1	
Wavelength	1550nm	
<b>Beam Divergence</b>	0.3mrad (1/e)	
Beam Diameter at Exit	2.12mm (1/e)	