

# FARO® Scanner Freestyle<sup>3D</sup>

Efficiency in your hands

**FARO**



#### Handheld color laser scanner

The operator can capture effortlessly almost any surface type in a wide range of environments by simply pointing the FARO Freestyle<sup>3D</sup> to the surface of the object.

#### Intuitive Plug and Play System

The Freestyle<sup>3D</sup> provides highest productivity in the field since no warm up times are required.

#### Real-time point cloud visualization

The real-time point cloud visualization supports the intuitive data acquisition, even for untrained operators.

#### Lightweight industrial grade device

The Freestyle<sup>3D</sup> is the only industrial grade handheld device with IP 5X rating and weighs only 0.98kg.

#### 3D documentation solution

The operators can combine seamlessly results from the Focus<sup>3D</sup> with Freestyle<sup>3D</sup> results.

## Efficient handheld laser scanning

The FARO Freestyle<sup>3D</sup> is a top-quality high-precision handheld scanner. It quickly and reliably documents rooms, structures and objects in 3D and creates high-definition pointclouds. With unbeatable precision it is suitable for all applications in which installations or properties must be quickly measured from various perspectives. The applications of the FARO Freestyle<sup>3D</sup> are diverse and range from construction to industrial production and forensics. Thanks to its lightweight carbon fibre body, the hand scanner weighs less than a kilogramme and is therefore extremely portable and mobile. The tablet PC provides intuitive user guidance, even for inexperienced operators.

## Most common applications

Maritime, Forensics & Law Enforcement, Architecture, Construction & Engineering, Oil & Gas, Virtual Reality, 3D Scanning Service Providers

## Benefits

- ▶ Up to 8m<sup>3</sup> indoor scanning volume
- ▶ Flexibility to work without artificial targets
- ▶ Best ROI on the market
- ▶ Seamless integration with Focus<sup>3D</sup> laser scan data
- ▶ FARO certified accuracy
- ▶ Easy to use scanning software
- ▶ No extra power supply required
- ▶ Worldwide service and support from local FARO facilities\*

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## Performance Specifications Freestyle<sup>3D</sup>

<b>Range</b>	0.5 - 3m
<b>Resolution @ 0.5m</b>	Lateral: 0.2mm - 1mm Depth: 0.2mm
<b>3D point accuracy/ whole scan accuracy**</b>	<1.5mm
<b>Typical lateral accuracy***</b>	<1mm
<b>Single image point density</b>	Up to 45,000 points/m <sup>2</sup> in 0.5m distance Up to 10,500 points/m <sup>2</sup> in 1m distance
<b>Recorded 3D points****</b>	Up to 88,000 points/s, point cloud density increases with time
<b>Typical Noise (rms)</b>	0,7mm @ 0,5m distance 0,75mm @ 1m distance 2,5mm @ 2m distance 5mm @ 3m distance
<b>Eye safety</b>	Class 1 laser
<b>Lighting conditions*****</b>	Up to 10,000 Lux
<b>Light source</b>	In build LED flash
<b>Scan volume</b>	8.1m <sup>3</sup>
<b>Typical field of view (HxW)</b>	450mm x 530mm @ 0.5m 930mm x 1,100mm @ 1m 1,800mm x 2,000mm @ 2m 2,600mm x 2,900mm @ 3m
<b>Typical angular field of view (HxW)</b>	45°x56° @ 0.5m 45°x59° @ 1m 49°x54° @ 2m 49°x52° @ 3m
<b>Exposure time</b>	0.02ms - 10ms (autoexposure)

<b>Texture color</b>	24bit
<b>Dimensions</b>	260mm x 310mm x 105mm
<b>Connectivity</b>	USB 3.0
<b>Weight</b>	0.98Kg
<b>Power supply</b>	5W, USB 3.0-powered
<b>IP rating</b>	IP 5X
<b>Calibration</b>	Optional in-field user calibration with supplied calibration plate
<b>Operating temperature range</b>	0 - 40°C
<b>Operating humidity range</b>	Non-condensing
<b>Laser power</b>	max. 800mW
<b>Duration of pulse</b>	<= 10ms
<b>Wavelength</b>	798-821nm

\* Worldwide service and support from local FARO facilities \*\* Measured on a 1m reference scale, in 1m distance, for a lateral scanner movement of 1m, using targets for distance measurement \*\*\* Measured in 0.5m-3m distance \*\*\*\* Point density depends on scanned surface and lighting conditions \*\*\*\*\* Limited range and point density in sunlight

### Recommended System Requirements for Tablet

Microsoft Windows 8.1 pro, 64-Bit  
4th generation Intel® Core™ i5  
256GB hard disc with 8GB RAM  
MicroSDXC  
Microsoft® Surface Pro 2 or 3 is a recommended device



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