

FARO® Scanner Freestyle^{3D}

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^{3D} to the surface of the object.

Intuitive Plug and Play System

The Freestyle^{3D} 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^{3D} 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^{3D} with Freestyle^{3D} results.

Efficient handheld laser scanning

The FARO Freestyle^{3D} 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^{3D} 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 8m³ indoor scanning volume
- ▶ Flexibility to work without artificial targets
- ▶ Best ROI on the market
- ▶ Seamless integration with Focus^{3D} 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^{3D}

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

Exposure time	0.02ms - 10ms (autoexposure)
Texture color	24bit
Dimensions	260mm x 310mm x 105mm
Connectivity	USB 3.0
Weight	0.98Kg
Power supply	5W, USB 3.0-powered
IP rating	IP 5X
Calibration	Optional in-field user calibration with supplied calibration plate
Operating temperature range	0 - 40°C
Operating humidity range	Non-condensing

* 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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