

FARO Scanner Freestyle^{3D}

Efficiency in your hands

Digital Photography with Accurate Measurements and Stitching Software to Convert into Video

The Perfect Instrument for 3D Documentation

FARO



Handheld Color Laser Scanner

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

FARO 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

FARO Freestyle^{3D} is the only industrial grade handheld device with IP5X rating and weighs only 0.98Kg.

3D Documentation Solution

The user can combine results seamlessly from the FARO Laser Scanner Focus^{3D} with the FARO 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 point clouds. With unbeatable precision it is suitable for all uses in which installations or properties must be quickly measured from various perspectives. The applications of the FARO Freestyle^{3D} are varied and range from construction to industrial production and all the way to forensics. With its lightweight carbon fibre body, the hand scanner weighs less than a kilogramme and is therefore extremely handy and mobile. The tablet PC provides intuitive user guidance, even for untrained 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 FARO Focus^{3D} laser scan data
- ▶ Certified accuracy
- ▶ Easy to use scanning software
- ▶ No extra power supply required
- ▶ Full lifetime services*

www.faro.com/Scanner/sg

FARO Scanner Freestyle^{3D}

FARO®



Performance Specifications Freestyle^{3D}

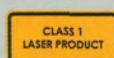
Range	0.5 - 3m
Resolution @ 0.5m	Lateral: 0.2mm - 1mm Depth: 0.2mm
3D point accuracy/ whole scan accuracy**	<1.5mm
Typical lateral accuracy***	<1mm
Single image point density	Up to 45,000 points/m ² in 0.5m distance Up to 10,500 points/m ² in 1m distance
Recorded 3D points****	Up to 88,000 points/s, 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 data	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 (auto exposure)
Texture color	24bit
Dimensions	260mm x 310mm x 105mm
Connectivity	USB 3.0
Weight	0.98Kg
Power supply	5W, USB3.0-powered
IP rating	IP5X
Calibration	Optional in-field user calibration with supplied calibration plate
Operating temperature range	0 - 40°C
Operating humidity range	Non-condensing

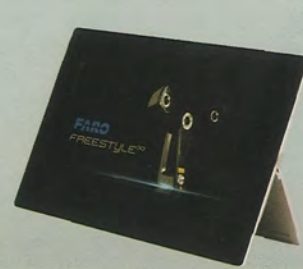
* Lifetime service includes hot line support, calibration and repair services for professionals ** Measured on a 1m reference scale, in 1m distance, for a lateral scanner movement of 1m, using targets for distance measurement *** Measured in 0.5m-3m distance **** Point density depends on scanned surface 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



Contract Holder



To learn more, visit: www.faro.com/Scanner/sg

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