Efficient handheld laser scanning

The FARO Freestyle® 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® 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® laser scan data
- FARO certified accuracy
- Easy to use scanning software
- No extra power supply required
- Worldwide service and support from local FARO facilities*

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® to the surface of the object.

Intuitive Plug and Play System

The Freestyle® 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® 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® with Freestyle® results.
### Performance Specifications Freestyle³D

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<td><strong>Range</strong></td>
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| **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/m² in 0.5m distance  
Up to 10,500 points/m² 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**               | 8.1m³ |
| **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°×55° @ 0.5m  
45°×59° @ 1m  
49°×54° @ 2m  
49°×52° @ 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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