FARO® Laser Scanner Focus^{3D} X 30

The Smart Entry-Level X Series Laser Scanner

SHORT RANGE SCANNING - UP TO 30M

The Focus^{3D} X30 can record data up to 30 meters and is therefore ideal for small and narrow job sites.

ULTIMATE PRACTICALITY

The Focus^{3D} X 30 has been optimized for ultimate practicality. With utmost usability it meets all key requirements for small area 3D documentation projects.

XTRA PORTABLE

The Focus^{3D} X 30 has the size of only 24 x 20 x 10 cm and a weight of just 5.2 kg. Waterproof transportation case and an ergonomic backpack incl. tripod holder make the device truly portable.

PURE SCANNING

The Focus^{3D} X 30 captures real geometry with grey-scale imagery. This reduces the total scan time up to 74%, compared with color scanning[1].

BEST VALUE FOR MONEY

The Focus^{3D} X 30 delivers a full scanning workflow at best return on invest in the market.

X-SERIES LASER SCANNER FOR SHORT-RANGE APPLICATIONS

The new X-series laser scanner FARO Focus^{3D} X 30 is a powerful high-speed 3D scanner for all kinds of applications.

The ultra-portable Focus^{3D} X 30 enables fast, straightforward, and yet accurate measurements of interiors, small facades, complex structures, production and supply facilities and manageable accident sites. Combining the highest-precision scanning technology with authentic mobility and ease-of-use, the new device offers reliability, flexibility, and real-time views of recorded data. The 3D scan data can easily be imported into all commonly used software solutions for accident reconstruction, architecture, civil engineering, construction, forensics or industrial manufacturing.

With a battery runtime of 4.5 hours, the laser scanner also has a high level of flexibility and endurance. The Focus' light weight, small size and SD-card makes the scanner truly mobile.

BENEFITS

The new FARO Focus^{3D} X 30 is a functional and profitable tool for short-range 3D documentation applications.

Just under one million points/second scanning rate, ease-of-use, portability, scanning ranges up to 30m, very low noise as well as WLAN remote control make it a universal tool for various kinds of working environments.

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PERFORMANCE SPECIFICATIONS FOCUS^{3D} X 30

Ranging unit

Unambiguity interval:	By 122 till 488Kpts/sec at 614m; by 976Kpts/sec at 307m
Range Focus^{3D} X 30:	0.6m - 30m indoor or outdoor with upright incidence to a 90% reflective surface
Measurement speed (pts/sec):	122,000 / 244,000 / 488,000 / 976,000
Ranging error[2]:	±2mm

Ranging noise[3]	@10m	@10m - noise compressed[4]	@25m	@25m - noise compressed[4]
@ 90% refl.	0.3mm	0.15mm	0.3mm	0.15mm
@ 10% refl.	0.4mm	0.2mm	0.5mm	0.25mm

Deflection unit

Field of view (vertical/horizontal):	300° [5] / 360°
Step size (vertical/horizontal):	0.009° (40,960 3D-Pixel on 360°) / 0.009° (40,960 3D-Pixel on 360°)
Max. vertical scan speed:	5.820rpm or 97Hz

Laser (optical transmitter)

Laser class:	Laser class 1
Wavelength:	1550nm
Beam divergence:	Typical 0.19mrad (0,011°) (1/e, halfangle)
Beam diameter at exit:	Typical 2.25mm (1/e)

Data handling and control

Data storage:	SD, SDHC™, SDXC™; 32GB card included
Scanner control:	Via touchscreen display and WLAN
WLAN access:	Remote control, scan visualisation are possible on mobile devices with Flash® and HTML5

Multi-Sensor

Dual axis compensator:	Levels each scan: Accuracy 0.015°; Range ± 5°
Height sensor:	Via an electronic barometer the height relative to a fixed point can be detected and added to a scan.
Compass[6]:	The electronic compass gives the scan an orientation. A calibration feature is included.

CLASS 1
LASER PRODUCT

[1]Based on scanning parameters of 44.4Mio.Pts 1/4 1x Quality 976KPts/sec. [2]Ranging error is defined as a systematic measurement error at around 10m and 25m, one sigma. Improved compensation available for dedicated mounting (fee-based service). [3]Ranging noise is defined as a standard deviation of values about the best-fit plane for measurement speed of 122,000 points/sec. [4]A noise-compression algorithm may be activated thereby compressing raw data noise by a factor of 2 or 4. [5]2x150° Homogenous point spacing is not guaranteed. [6]Ferromagnetic objects can disturb the earth magnetic field and lead to inaccurate measurements. Subject to change without prior notice.

GENERAL

Power supply voltage:	19V (external supply) 14.4V (internal battery)
Power consumption:	40W and 80W (while battery charges)
Battery life:	4.5 hours
Ambient temperature:	5° - 40°C
Humidity:	Non-condensing
Cable connector:	Located in scanner mount
Weight:	5.2 kg
Size:	240 x 200 x 100mm
Maintenance / calibration:	Annual

ISO 9001 BUREAU VERITAS Certification

ANAB ACCREDITED

GSA Contract Holder

Global Offices: Australia ▪ Brazil ▪ China ▪ France ▪ Germany
India ▪ Italy ▪ Japan ▪ Malaysia ▪ Mexico ▪ Netherlands
Philippines ▪ Poland ▪ Portugal ▪ Singapore ▪ Spain ▪ Switzerland
Thailand ▪ Turkey ▪ United Kingdom ▪ USA ▪ Vietnam

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