FARO® Laser Scanner Focus³D X 330
The Perfect Instrument for 3D Documentation and Land Surveying

Extended scanning - 330m range
The Focus³D X 330 can scan objects up to 330 meters away. Large buildings, land-site excavations and vast terrains can be surveyed with fewer scans, thus resulting in quicker project scanning completion.

Easy positioning - integrated GPS receiver
With its integrated GPS receiver, the laser scanner is able to correlate individual scans in post-processing making it ideal for surveying based applications.

Outdoor scanning capability
The Focus³D X 330 now is able to perform fast and highly precise scanning in direct sunlight.

Low noise performance
The new FARO Focus³D X 330 delivers extraordinary scan data quality at extended range with very low noise.

Wireless LAN
WLAN remote control permits you to start, stop, and view scans at a distance.

Extended outdoor scanning in full sunlight
The new FARO Focus³D X 330 a high-speed 3D scanner with extra-long range. The Focus³D X advances into entirely new dimensions: it can scan objects up to 330 meters away even in direct sunlight.

With its integrated GPS receiver, the laser scanner is able to correlate individual scans in post-processing making it ideal for surveying based applications.

With its increased range and scan quality, the FARO Focus³D X 330 considerably reduces the effort involved in measuring and post-processing. The 3D scan data can easily be imported into all commonly used software solutions for accident reconstruction, architecture, civil engineering, construction, forensics, industrial manufacturing and land surveying. Distance dimensions, area and volume calculations, analysis and inspection tasks and documentation can thus be carried out quickly, precisely and reliably.

Benefits
The new FARO Focus³D X 330 is the leading tool for surveying and 3D documentation.

Scanning range - 330m, integrated GPS, the possibility to work in direct sunlight as well as the specially for the scanner designed protection cover make it a ideal tool for outdoor environments.
Performance Specifications Focus3D X 330

Ranging unit
Unambiguity interval: By 122 till 488 Kpts/sec at 614m; by 976 Kpts/sec at 307m
Range Focus3D X 330: 0.6m - 330m 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:

<table>
<thead>
<tr>
<th></th>
<th>@10m</th>
<th>@10m - noise compressed</th>
<th>@25m</th>
<th>@25m - noise compressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>@ 90% refl.</td>
<td>0.3mm</td>
<td>0.15mm</td>
<td>0.3mm</td>
<td>0.15mm</td>
</tr>
<tr>
<td>@ 10% refl.</td>
<td>0.4mm</td>
<td>0.2mm</td>
<td>0.5mm</td>
<td>0.25mm</td>
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Colour unit
Resolution: Up to 70 megapixel colour
Dynamic colour feature: Automatic adaption of brightness
Parallax: Co-axial design

Deflection unit
Field of view (vertical/horizontal): 300° / 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: 5,820 rpm or 97Hz

Laser (optical transmitter)
Laser class: Laser class 1
Wavelength: 1,550nm
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
New WLAN access: Remote control, scan visualisation are possible on mobile devices with Flash®

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.
Compas*: The electronic compass gives the scan an orientation. A calibration feature is included.
GPS: Integrated GPS receiver

1 Ranging error is defined as a systematic measurement error at around 10m and 25m, one sigma 2 Ranging noise is defined as a standard deviation of values about the best-fit plane for measurement speed of 122,000 points/sec. A noise-compression algorithm may be activated thereby compressing raw data noise by a factor of 2 or 4. Subject to change without prior notice 4 Ferromagnetic objects can disturb the earth magnetic field and lead to inaccurate measurements

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: 5.2kg
Size: 240 x 200 x 100mm
Maintenance / calibration: Annual

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