FARO® Laser Scanner Focus³D X 130 HDR
The Imaging Laser Scanner

HDR PHOTO OVERLAY
With the Focus³D HDR you will now master challenging lighting conditions. Predefined HDR profiles increase the picture quality recorded in very bright or dark environments.

HD PHOTO RESOLUTION
The increased camera resolution of Focus³D X 130 HDR delivers extraordinary color overlays for scanned point clouds. This improves the visualization of important details on site.

XTRA PORTABLE
The Focus³D X 130 HDR has the size of only 24 x 20 x 10 cm and a weight of just 5.2kg. Waterproof Pelicase and an ergonomic backpack incl. tripod holder make the device truly portable.

MID RANGE SCANNING - UP TO 130M
The 130m range allows the Focus³D X 130 HDR to scan in all kinds of applications in the architecture, BIM, heritage, forensics, shipbuilding, construction and process industries.

XTRA POSITIONING - INTEGRATED GPS RECEIVER
Effortlessly determine the position of the scanner. This helps to facilitate the registration process and provides the exact time and location of the users’ scans.

X-SERIES HDR LASER SCANNER FOR MID-RANGE APPLICATIONS
The X-series laser scanner FARO Focus³D X 130 HDR is a powerful high-speed 3D scanner delivering realistic and true-to-detail scan results.

The ultra-portable Focus³D X 130 HDR enables fast, straightforward, and yet accurate measurements of façades, complex structures, production and supply facilities, accident sites, and large-volume components. Combining the highest-precision scanning technology with authentic mobility and ease-of-use, the 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 has also a high level of flexibility and endurance. The Focus’ light weight, small size and SD-card makes the scanner truly mobile.

BENEFITS
- Safe and fast as-built data capturing with superior color detail
- Reliable life-like visualization, even under extreme lighting conditions
- Reduced complexity by integrated scanning and imaging workflow for all kinds of measurements even in challenging environments
- Increased onsite productivity due to one person operation
- Revolutionary price/performance ratio, as all-in-one device
PERFORMANCE SPECIFICATIONS

Ranging unit
Unambiguity interval: By 122 till 488 Kpts/sec at 614m; by 976 Kpts/sec at 307m
Range: 0.6m - 130m 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: ±2mm

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<tr>
<th>Ranging noise</th>
<th>@10m</th>
<th>@10m - noise compressed</th>
<th>@25m</th>
<th>@25m - noise compressed</th>
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<tr>
<td>@ 90% refl.</td>
<td>0.3mm</td>
<td>0.15mm</td>
<td>0.3mm</td>
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<td>@ 10% refl.</td>
<td>0.4mm</td>
<td>0.2mm</td>
<td>0.5mm</td>
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Colour unit
Resolution: Up to 170 megapixel color
HDR: High Dynamic Range (HDR) photo recording, 3x / 5x
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: 5.820rpm 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® 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: The electronic compass gives the scan an orientation. A calibration feature is included.
GPS: Integrated GPS receiver

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

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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