

Zu vermieten:

FARO® Laser Scanner Focus S150 Technische Spezifikationen



Sie haben Fragen zur Vermietung oder wollen ihre Mitarbeiter auf dieses Projekt schulen? Wir beraten Sie gerne!

FARO® Focus^S 150

www.faro.com



PERFORMANCE SPECIFICATIONS

Ranging unit

Unambiguity interval: 614m for 122 to 488 kpts/s

307m for 976 kpts/s

90% (white) 10% (dark-gray) 2% (black) Range¹ 0.6-150 m 0.6-150 m 0.6-50 m

Ranging noise² @10m = 0.0 m reduction³ reduction³ 90% reflectivity 0.3mm 0.15mm 0.3mm 0.15mm 10% reflectivity 0.4mm 0.2mm 0.5mm 0.25mm 2% reflectivity 1.3mm 0.65mm 2mm 1mm

Measurement speed (pts/sec): 122,000 / 244,000 / 488,000 /

976,000

Ranging error⁴: ±1mm

Angular accuracy⁵: 19 arcsec for vertical/horizontal

angles

3D position accuracy⁶: 10m: 2mm / 25m: 3.5mm

Color unit

Resolution: Up to 165 megapixel color High Dynamic Range (HDR): Exposure Bracketing 2x, 3x, 5x Parallax: Minimized due to co-axial design

Deflection unit

Field of view (vertical⁷/horizontal):300° / 360°

0.009° (40,960 3D-Pixel on 360°) / Step size (vertical/horizontal):

0.009° (40,960 3D-Pixel on 360°)

Max. vertical scan speed: 97Hz

Laser (optical transmitter)

Laser class: Laser class 1 Wavelength: 1550nm Beam divergence: 0.3mrad (1/e) Beam diameter at exit: 2.12mm (1/e)

Data handling and control

Data storage: Scanner control:

Interface Connection

WLAN:

Integrated Sensors

Dual axis compensator:

Height sensor:

Compass8:

GNSS:

On-site Compensation

Accessory Bay

SD, SDHC™, SDXC™; 32GB card Via touchscreen display and WLAN connection. Accsess by mobile devices with HTML5

802.11n (150Mbit/s), as Access Point or client in existing networks

Performs a leveling of each scan with an accuracy of 19 arcsec

valid within ±2°

Via an electronic barometer the height relative to a fixed point can be detected and added to

a scan.

The electronic compass gives the

scan an orientation.

Integrated GPS & GLONASS Creates a current quality report and provides the option to improve the devices compensation

automatically.

The accessory bay is located on top of the laser scanner and is used to connect versatile acces-

sories to the scanner.



1 For a Lambertian scatterer, 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-reduction algorithm may be activated by averaging raw data. 4 Ranging error is defined as a systematic measurement error at around 10m and 25m. 5 On-site compensation required. 6 For distances larger 25m add 0.1mm/m of uncertainty. 7 2x150°, homogenous point spacing is not guaranteed. 8 Ferromagnetic objects can disturb the earth magnetic field and lead to inaccurate measurements. 9 Low temperature operation; scanner has to be powered on while internal temperature is at or above 15°C, high temperature operation: additional accessory required, further information on request | All accuracy specifications are one sigma, after warm-up and within operating temperature range; unless otherwise noted. Subject to change without prior notice.

GENERAL

Power consumption:

Power supply voltage: 19V (external supply)

14.4V (internal battery) 15W idle, 25W scanning,

80W charging

IP54

Battery service life: 4.5 hours Operating temperature: 5° - 40°C Extended operating temperature⁹: -20° - 55°C Storage temperature: -10° - 60°C

Ingress Protection: Humidity: Non-condensing Weight incl. battery:

4.2kg

230 x 183 x 103mm Maintenance / calibration:

Annual







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