

## 3D laser scanner



### **Technical description:**

Laser scanners have been developed for indoor and outdoor surveying in industries such as architecture, engineering, construction, public safety and forensics or product design. Devices capture real-world data and store it digitally to provide insights for analytics, collaboration, and decision making.

**Trade name:** FARO Focus S 150

**More details:** </equipment/skaner-laserowy-3d/>

**Access type:** External

**Type of accreditation / certificate:** Not applicable

**Contact person:** Jaskowska-Lemańska Justyna

**Contact person url:** <https://skos.agh.edu.pl/osoba/justyna-jaskowska-lemanska-7911.html>

**Responsible body:** Department of Civil & Geotechnical Engineering and Geomechanics

**Group / laboratory / team:** Building structure diagnostics laboratory

**Last update date:** May 24, 2023, 1:47 p.m.

**Year of commissioning:** 2019

**IDUB research areas:**

(PRA 2) New technologies for the circular economy: merging business models with ecoinnovations to improve productivity and minimise waste, as well as to create knowledge and use it

(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

**Research capabilities:**

3D scanning of entire buildings - inside and out

3D scanning of rooms

3D scanning of large objects

**Measurement capabilities:**

Maximum 3D scanning distance: 150 m

Distance measurement error: +-1mm

Scan speed - pts/s: up to 2,000,000 pts/s

Operating temperature: -20 to 55°C

**Conditions for providing infrastructure:**

"Work only through an authorized employee of the Department of Geomechanics, Construction and Geotechnics. Order/contract/other form of cooperation upon agreement"