LABORATORY: CNR-ISPC

NAME OF THE INSTRUMENTS:

Laser scanner Faro Focus S350
Laser scanner Faro Focus S150

GENERAL DESCRIPTION:

The instrumentation consists of two Faro S-series laser scanners, which use phase-shift technology. They are both equipped with GPS, integrated camera and remote mode control. This compact and lightweight instrumentation is particularly suited for outdoor applications, it allows numerous scan position to be performed in a very short acquisition times guaranteeing accuracy and precision.

TECHNICAL DESCRIPTION:

The transportable FARO S-series laser scanners, available through MOLAB, have the following technical details:

- Range: 0.6 - 350 m (Faro S350); 0.6 - 150 m (Faro S150)
- High Dynamic Range photo recording 2x/3x/5x
- Measurement speed: up to 976,000 points per second
- Ranging error: ± 1mm
- Sealed design – Ingress Protection (IP) Rating Class 54
- On-site compensation and registration
- Scan Group Feature (rescanning of distant targets in higher resolution)
- Angular Accuracy: 19 arcsec for vertical/horizontal angles
- Integrated color camera: Up to 165 mio. pixel
- Laser class: Laser class 1
- Multi-Sensor: GPS, Compass, Height Sensor, Dual Axis Compensator
- Scanner control: via touchscreen display and WLAN

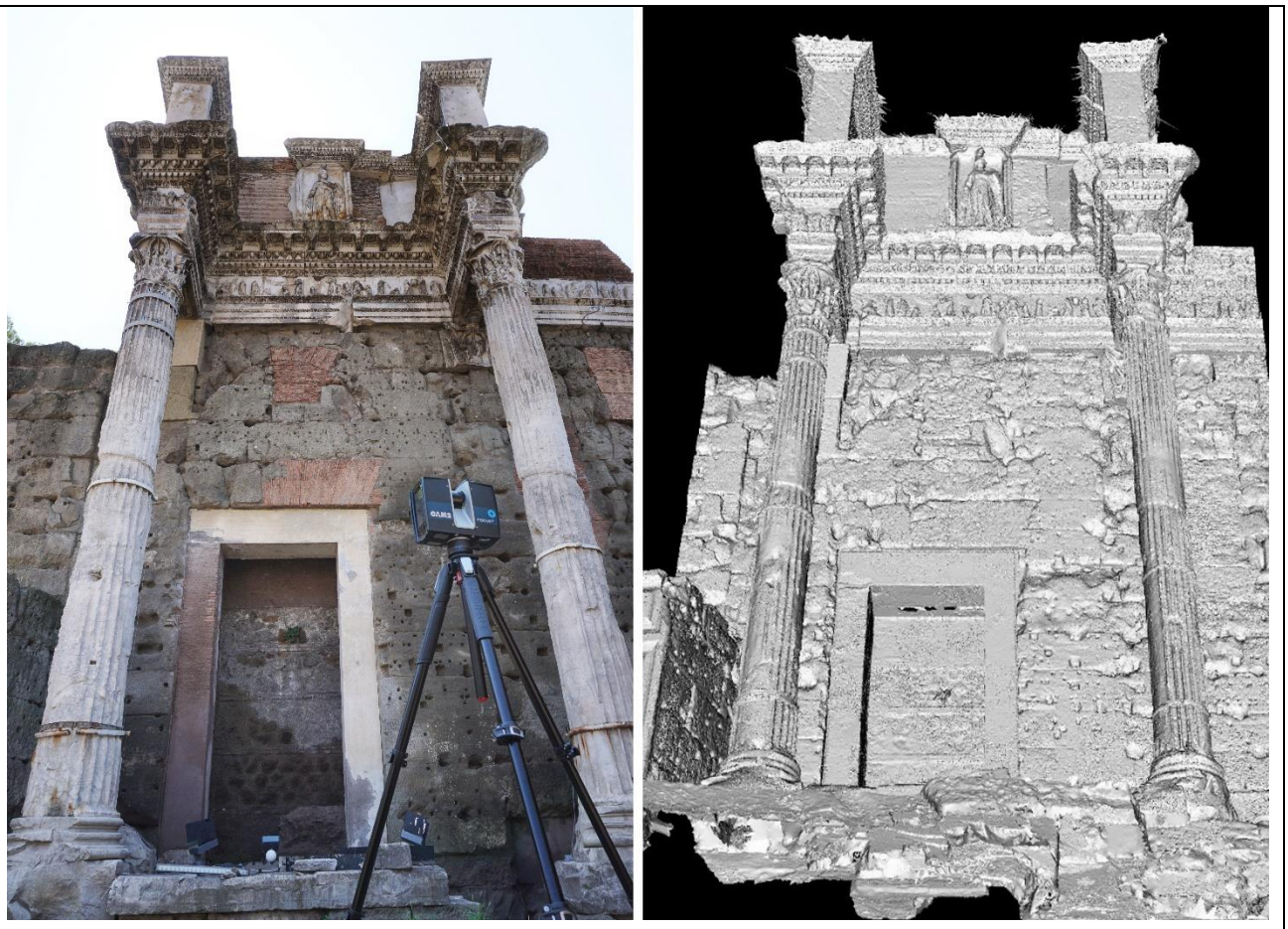

Figure 1-3: Condizioni operative dello strumento Faro S350

FURTHER INFORMATION:

- Recent trends in the application of Fourier Transform Infrared (FT-IR) spectroscopy in Heritage Science: from micro- to non-invasive FT-IR, , Physical Sciences Reviews 4(11), 20180006, eISSN 2365-659 https://doi.org/10.1515/9783110457537-006

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