

FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF



- 1 Sensor.
- 2 3D scan of a globe at museum
- "Ernst-Haeckel-Haus" Jena.
- 3 3D scan result shape and color.

Fraunhofer Institute for Applied **Optics and Precision Engineering IOF**

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Measurement principle

- High-speed image projection and data acquisition
- Fringe projection with phase shifting

System parameter

- Single measurement field: 325 x 200 mm²
- Measurement uncertainty: 20 ... 100 µm
- Data aquisition time:
- Resolution lateral: 170 µm
- Sensor weight:
- (with colour option 4,4 kg)
- Number of views:
- Number of pixels: 2048 × 1280 pixels

Our Offer

- Development of sensors according to the user specific requirements
- Manufacturing of sensors
- Process integration

Features

- Ergonomic hand-held operation
- Unconstrained sensor placement (no external tracking, no positioning targets, complete freedom of movement)
- Cordless design (battery powered)
- User friendly (user interface via touchscreen at the sensor head, simple handling, easy to set up and scan)
- Mobility (transport within a case)
- High resolution colour and texture scanning (optional)
- Built-in computer unit for control and data analysis
- 3,6 kg
 - unrestriced
- < 0,25 s

OPTICAL 3D SCANNER