

FARO® 3D Imager AMP



Advanced Technology

Accordion Fringe Interferometry (AFI), FARO's patented laser projection technology delivers the highest accuracy available for the most demanding manufacturing tolerances

Comprehensive Data Collection

A high resolution camera yields millions of points per image, making it easy to handle complete inspections and reverse engineering applications

Measure wider range of parts

Patented laser projection and optical filtering enables better measurement of dark and shiny parts often missed by imaging systems

Plant Floor Ready

With its portable, rugged and thermally stable design, the FARO 3D Imager is right at home on the shop floor or the assembly line

Flexibility

With automated and manual modes, the FARO 3D Imager can handle everything from in-process inspection to comprehensive reverse engineering

Rock Solid Stability

Ultra stiff crossbar enables the imager to maintain specified performance in all orientations

Return on Investment

FARO's 3D Imager offers tremendous value in delivering metrology solutions that show up on the bottom line

FARO 3D Imager AMP

The FARO 3D Imager AMP is a high performance non-contact 3D imaging system, capable of collecting millions of points in just seconds. Using patented technology, AMP achieves groundbreaking accuracy on parts, assemblies and tools never before possible.

Common Applications

Quality Control

- First article inspection
- In process checks
- Final inspection

Rapid manufacturing

- Rapid prototyping
- Tool modification
- Iterative product enhancement

Reverse Engineering

- As built documentation
- Aftermarket product design
- Virtual assembly
- Simulation

Features

► High Accuracy

Metrology grade imaging (according to VDI/VDE 2634-2)

► Large Volume

500 x 500 x 220mm field of view

► Great Value

High end performance at an affordable price

Dimensions

780 x 305 x 250mm
(31 x 12 x 10in.)



Overall weight 17kg

General Specifications

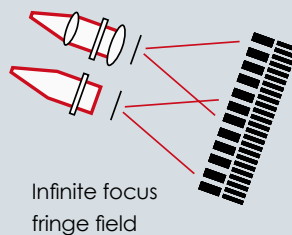
- **Imaging volume:** 500 x 500 x 220mm (20 x 20 x 8.7in.)
- **Data points per scan:** 4 million
- **Maximum Resolution:** 0.284mm (0.011in.)
- **Standoff distance:** 750mm (30in.)
- **Mounting:** Universal mount/ Any orientation
- **Software:** AMPCapture, PolyWorks, Geomagic, Rapidform

Technical Details

AMP's patented Accordion Fringe Interferometry (AFI) Technology

- High accuracy fringe pattern
- Infinitely focused laser projection
- Precision phase shift
- Ambient light filter

Laser sources

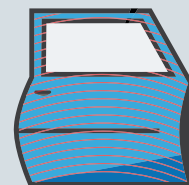


Infinite focus
fringe field

Camera



Object



Environmental

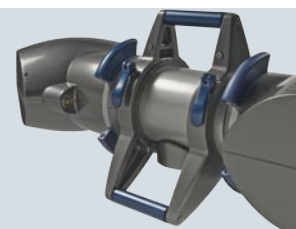
Operating temperature: 15°C - 30°C (59°F - 86°F), non-condensing

Ambient light rejection: Rejects 95% of ambient light outside of laser wavelength

Electrical: 100-240V, 50-60Hz

Compliance: MET, CE

Laser emission: 658nm laser, CDRH Class II/IEC Class 2M



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