FARO® Cobalt Array 3D Imager
Smart 3D Imager Arrays

FARO

COBALT
Array 3D Imager

MULTIPLE IMAGER ARRAYS: Enables simultaneous operation of multiple Cobalt units for increased productivity

ON-BOARD PROCESSING: Delivers fast, reliable performance, ease of integration, and multi-imager configurations

HIGH RESOLUTION: Provides higher precision; critical for capturing fine details, features and edges

HIGH DYNAMIC RANGE: Easily handles complex parts with both dark and light surfaces, different colors, textures, and reflectivity

AUTOMATIC EXPOSURE: Applies optimal exposure settings to ensure the best possible data in all situations

STEREO CAMERAS: Enable high accuracy, stability and self-monitoring

ENHANCED STEREO MODE: Maximizes coverage area in each scan and shortens inspection time

INTERCHANGEABLE LENSES: Provide flexibility for multiple fields of view

BLUE LIGHT TECHNOLOGY: Enhances the ability to measure dark and reflective surfaces in variable lighting conditions

The FARO Cobalt Array 3D Imager is equipped with dedicated on-board processors – an industry first. The smart sensor allows unique multi-imager array configurations enabling industrial manufacturers to significantly improve productivity and operations in a way never before possible. An unlimited number of 3D imagers can be placed in array configurations virtually anywhere in a manufacturing process – all scanning simultaneously and controlled by a single computer. The Cobalt Imager is a metrology-grade, non-contact scanner which utilizes blue light technology to capture millions of high resolution 3D coordinate measurements in seconds. Cobalt is versatile - supporting a wide variety of deployment options including multi-imager array, tripod, rotary table, robot and industrial inspection cells. Cobalt delivers fast and consistent measurements for dimensional inspection and reverse engineering applications on parts, assemblies, and tools.

INDUSTRIES AND APPLICATIONS

Automotive: Automated quality control and assembly verification, Sheet metal inspection, Tool & die inspection and reverse engineering
Machining, Metalworking & Assembly: Casting and machined part inspection, Automated quality control, Mold and die inspection and reverse engineering
Aerospace: Automated quality control and assembly verification, Composite tooling, Wing skin and fuselage panel inspection and reverse engineering.

BENEFITS

- Dramatically reduce inspection cycle times using multiple imager arrays
- Increases productivity by automating measurement workflows
- Easy to configure and integrate
- Measurement accuracy ensured by self-monitoring
- Easy set-up and transport
- Real-time 3D data for statistical process control (SPC) without slowing production
- High-end performance at an affordable price
- Worldwide service and support from regional FARO locations

FARO® Cobalt Array 3D Imager

PERFORMANCE SPECIFICATIONS

Field of View (mm)	Measurement Volume (mm/inch)			Standoff Distance (mm/inch)	Point Spacing (mm/inch)	Points
	Width	Height	Depth			
250	260 / 10.2	200 / 7.9	90 / 3.5	505 / 19.9	0.130 / 0.005	5M
500	500 / 19.7	350 / 13.8	300 / 11.8	320 / 12.6	0.225 / 0.009	5M

Calibration per VDI/VDE 2634 part 2

GENERAL SPECIFICATIONS

Exposure time: 2 seconds
Mounting: Any orientation / Universal mount customizable to specific applications

Data Handling and Control
Output: STL, ASCII
Connectivity:
- Ethernet - PC or Network
- USB - Rotary Stage

Cameras
Resolution: 5 megapixels

Projector
Technology: Digital projection
Light source: Blue LED

Features
- On-Board Processing
- Small Form Factor
- Light weight
- Automatic Exposure
- Fast Data Acquisition
- High Dynamic Range
- Stereo Cameras
- Enhanced Stereo Mode
- Interchangeable Lenses (Optional)
- High Resolution
- Blue Light Technology
- Field Compensation
- Self Monitoring
- Stability Tracking

Deployment Options
- Multiple Imager Array
- Manual Operation
- Robot Integration
- Custom Automation

Accessories
- Tripod
- Rotary Table
- Photogrammetry

Software Compatibility
- FARO CAM2 Measure 10
- Third-Party Software Plug-ins
- Software Development Kit (SDK)

HARDWARE SPECIFICATIONS

Power supply voltage: 100 - 240 VAC
Power consumption: 75 W
Ambient temperature: 10° - 40°C / 50° - 104°F
Humidity: 0-95% (non condensing)
Weight: 5kg / 11lb
Size: 440 x 210 x 80mm / 17.3 x 8.3 x 3.2 inches

Certifications:
NRTL listed, MET-C listed
Complies with EC directive: 2004/108/EC Electrical Equipment CEMarking; 2011/65/EU -RoHS2
Conforms to the following standards: EN 61010-1:2010; EN 61326-1:2013; EN 55011:2009/A1:2010; FCC Part 15 Subpart C

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