

FARO® Forensic ScanArm Solution

High-Resolution 3D Scanning for Forensic Anthropology and Crime Labs



HIGH-RESOLUTION DATA

Features optically-superior blue laser technology to capture highly-detailed and noise-free scan data.

NON-CONTACT, 3D SCANNING AND MEASUREMENT

Minimizes the risk of damage to fragile forensic artifacts.

RAPID SCANNING SPEED

Measure and document an object in 3D up to ten times faster versus conventional measurements and photographic methods.

PORTABLE AND MANEUVERABLE

Built for convenient use in the anthropology lab, crime lab, and at the desktop. Mountable on a lab table or tripod.

NO TARGETS OR SPRAY REQUIRED

Advanced software algorithms enable seamless scanning across challenging artifacts and evidence, without the risk of damage or contamination.

SIMPLE USER INTERFACE

Designed for easy operation regardless of skill level or 3D scanning experience.

HARD PROBING CAPABILITIES

Utilize both high-resolution 3D scanning and where appropriate, high-precision probing of basic geometry.

3D SCANNING OF EVIDENCE AND ARTIFACTS FOR FORENSIC APPLICATIONS

The FARO Forensic ScanArm is a portable, non-contact 3D scanning solution tailored for forensic anthropology, crime lab, and medical examiner applications.

By combining FARO's best-in-class 3D scanning technology with powerful meshing and reconstruction software, the Forensic ScanArm provides a turnkey solution that allows users to scan forensic evidence and artifacts in 3D with greater accuracy, and up to 10 times faster than the time it would take to do so with conventional measurement and photographic methods. The evidence is documented digitally into a 3D model – permanently and safely via non-contact scanning so that the risk of damaging often fragile evidence is minimized. This solution allows the user to piece together forensic evidence into a digital record for the purpose of evidence and artifact re-creation, ultimately helping to solve and prosecute crimes. Scan data files may be used to 3D print replications of forensic artifacts that can be used to create compelling courtroom presentations.

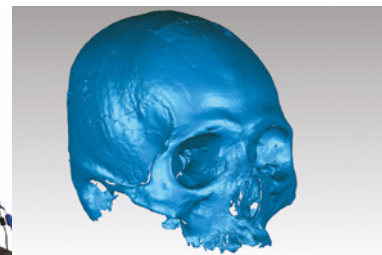
APPLICATIONS

- ▶ Forensic anthropology
- ▶ Crime labs
- ▶ Medical examinations
- ▶ Facial reconstruction
- ▶ Digital archiving of evidence
- ▶ 3D printing replications of evidence

Forensic ScanArm Solution

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FARO®



SOFTWARE BUNDLES

The FARO Forensic ScanArm solution is bundled with 3D System's® Geomagic® software.

Software Package	Key Capabilities
Geomagic® Wrap Scan it, Mesh it, Surface it	Geomagic Wrap delivers a powerful toolbox to transform 3D scan data and imported files into 3D models for immediate use downstream. Quickly and easily produce 3D mesh files of scanned data.
Geomagic Freeform®	For forensic anthropology applications, Freeform allows users to perform facial reconstruction analysis using data from cranial scans.

HARDWARE

The Forensic ScanArm solution utilizes FARO's Fusion^M hardware platform.

Technical Specifications

System Precision	100µm	Point Resolution Range	40-75µm
Point Capture Rate	Up to 500K pts/sec	Field of View (FOV) Depth	115mm
Scan Width Range	80-150mm	Probing Precision	75µm

Hardware Specifications

Operating Temp range	10°C to 40°C (50°F to 104°F)
Temperature Rate	3°C/5min (5.4°F/5min Max)
Power Supply	Universal worldwide voltage, 100-240VAC, 47 to 63 Hz

Meets OSHA requirements, NRTL Listed, MET-C Listed, Meets OSHA requirements, NRTL Listed, MET-C Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15 and 21 CFR 1040 Performance standards For Light-Emitting Products. Complies with the following EC Directives: 93/68/EEC CE Marking; 2004/108/EC Electrical Equipment. 1999/5/EC R&TTE Directive; 2011/65/EU RoHS2; 2002/96/EC WEEE; 2006/66/EC WEEE; 2006/66/EC Batteries and Accumulators. 2006/95/EC Low Voltage Directive; 2009/125/EC Ecodesign requirement. Conforms to the following standards: EN 61010-1:2010 / CSA-C22.2 No. 61010-1; EN 61326-1:2006; IEC 60825-1 ed3.0 (2014):2007. FDA (CDRH) 21 CFR 1040.10 / ANSI Z136.1-2007; IEEE 802.11 b/g; FCC Part 15 Subpart C / IC RSS-210. Patents: 5402582, 5611147, 5794356, 6366831, 6606539, 6904691, 6925722, 6935036, 6973734, 6988322, 7017275, 7032321, 7043847, 7051450, 7069664, 7269910, 7735234, 7784194, 7804602, 7881896, RE42055, RE42082.



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www.faro.com
Freecall 00 800 3276 7253
info.emea@faro.com

