ScanBright archeo

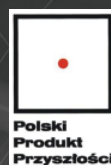## 3D Scanner for Heritage Preservation

SMARTTECH 3D
Optical measurement systems

ScanBright archeo 3D scanner - is a complex solution providing professional digitalization of museum objects for various applications-starting with simple visualization for virtual museum up to precise archivization process.

Gold Medal at the Poznan Fair Mach-Tool 2005

Gold Medal Brussels EUREKA'2006

Polski Produkt Przyszłości
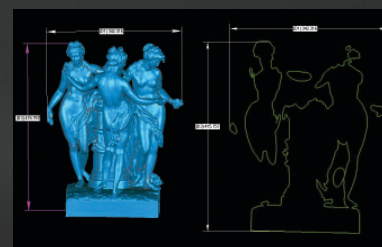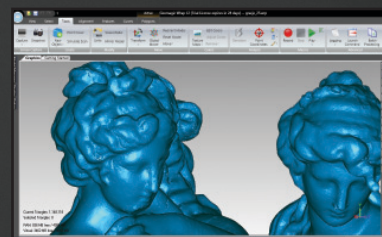
Polish Product of the Future 2005

ScanBright archeo has been designed for professional digitalization of fragile and precious museum objects according to "Recommendation for planning and conducting digitalization of museum objects". Thanks to wide cooperation with many museums, ScanBright archeo meets highest requirements of measurement and also provides realistic models for virtual museums and 3D printing.

Scan accuracy up to 30 µm and high point cloud density (to 650 points/ mm²) provides precise geometry representation and enables 3D documentation or virtual research based on scanning. The use of high class detector with real color image and highest resolution on the market (18 MPix), gives the possibility to visualize the smallest changes and appreciate the artist finesses in every detail.

SAFETY GUARANTEED - White light 3D scanning technology uses only white spectrum of light which guarantees full safety of precious models.

EASE OF USE - Each 3D scanner is delivered and installed together with mobile workstation and software. To make sure your measurement is precise ScanBright archeo is calibrated on production site and checked according to VDI/VDE 2634. Professional transport cases and specialized ISA module (Internal Shock Absorber) integrated in scanner head casing ensures that no end user calibration is needed.

3D SCANNER DESIGNED FOR NATIONAL HERITAGE PRESERVATION - Over decade of experience in 3D scanner production and museum heritage measurement gave us opportunity to adjust scanning process for museology needs. As an additional features we offer precise rotation table to automate measurement, advanced light markers for automatic scan merging (no need for physical markers) and specialized application for automated periodic measurement for damage assessment. We provide professional service, technical help and complex training in 3D scanning and data post processing.

SCANBright edu

SMARTTECH 3D
Optical measurement systems

3D scanners for education - The best offer for education!

Complex equipment for modern RE and VR laboratories:
- 3D scanners,
- Reverse Engineering software,
- 3D printers,
- Computers and accessories.

System was deployed at more than 30 universities and technical schools. Closed and hard scanner cover with Interior Shock Absorber system (ISA), provides long and safe scanner use. Advanced technology allows surface and texture measuring in the same time.

For education purposes 3D scanners can be calibrated in various modes, enabling precise measurement for technical objects and ultra-fast measurement of biological objects with the same device.
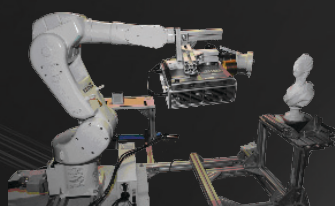
SCAN3D multimedia

Scan3D multimedia - scanner created for visualization and multimedia.

Scan3D multimedia enables generating realistic colored models of complex objects in short time. ULTRA-FAST scanning deals with scanning biological objects like face or plant.

Scan3D multimedia scanners are equipped with hand on software which makes work easy even for beginners. Auto measure and post processing functions together with rotating table can ensure complete visualization almost without operator integration.

Scanning results can be exported to main graphic software (Autodesk 3DMax, Blender, Maya, etc.).

Additional accessories:

Measuring robot

Automatic rotation table

Technical details	ScanBright archeo	ScanBright edu	SCAN3D multimedia
Technology	Structural White Light	Structural White Light	Structural White Light
Detector resolution [points]	18; 10 Mpix	5; 3; 2 Mpix	10; 5; 2 Mpix
Scanning field [mm²]	150x200 - 1200x1600	150x200 - 1200x1600	150x200 - 1200x1600
Distance between points[mm]	0,04 - 0,40	0,08 - 0,50	0,04 - 0,70
Sampling rate [points/mm²]	9 - 650	1 - 160	1 - 600
Number of points from scan [points]	10 - 18 millions	2 - 5 millions	2 - 10 millions
Tripod	+	option	+
Texture measure	+	option	+
Mobile work station	+	option	option

SMARTTECH 3D
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