



anaglyph



3D Creator
Precision Optical Digitizer



- ✓ Enables precise 3-Dimensional measurement
- ✓ Allows contour, seams and surface capture
- ✓ The ultimate in a portable CMM
- ✓ Time saved will pay for itself
- ✓ Provides real-time tracking of instruments providing X, Y, Z and vector information
- ✓ The productivity enhancer

The Path to Productivity...

The 3D Creator is a family of 3D measurement and tracking systems used to digitize both small and large objects or track motion in real time. With thousands of systems in use around the world, the 3D Creator is helping organizations solve difficult problems, deliver better products, and improve their bottom-line.

Ease of Use, Portability and Range

Not encumbered by mechanical limitations, the 3D Creator's patented optical technology and wireless design permits complete freedom of movement within a large measurement volume.

Dynamic Referencing and Real-time Tracking

A powerful feature of the 3D Creator is its ability to accurately measure or track an object in motion, from in-process inspection on the shop floor to computer assisted surgery.

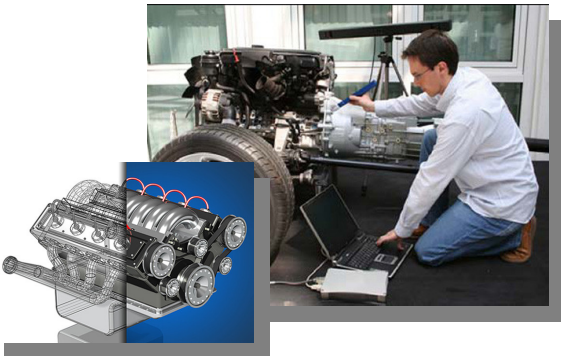
Compatible with Popular Software

The 3D Creator seamlessly interfaces with the most popular metrology and CAD/CAM software solutions, including Delcam PowerInspect, PolyWorks, GeoMagic, Aberlink 3D, Aberlink 3D plus CAD, RevWorks, PointMaster, HighRes, TezetCAD Light and 3D Reshaper .



Applications by industry

Engineering - Wireless 3D digitizer for reverse engineering and rapid prototyping



Applications:

- Design of aftermarket auto parts and accessories
- Capturing design elements for rapid prototyping
- Design of vehicle seating and furniture
- Creation of custom window films

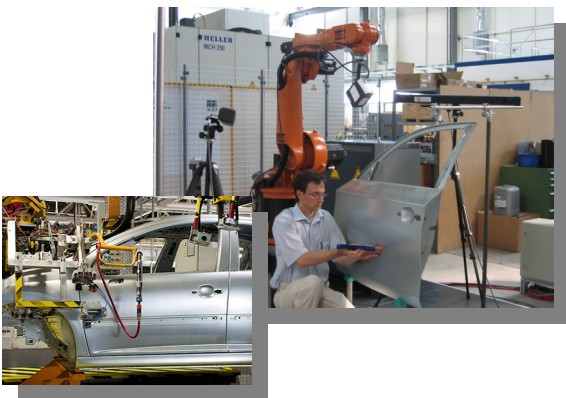
Product Features:

- Complete freedom of movement with the hand-held, wireless probe
- Extremely versatile, ideal for both small and large object digitizing
- Compact, all-in-one system for “plug & play” simplicity and easy mobility

Key Benefits:

- Improved productivity

Manufacturing - Portable CMM for shop floor inspection and robot control



Applications:

- Part-to-CAD inspection of small and large parts
- First-article and supplier quality inspection
- Tooling and fixture verification and alignment
- Robot programming and control
- Noise, vibration, and acoustic imaging
- Aerospace fuselage assembly

Product Features:

- Avoid unnecessary downtime by inspecting parts off-line
- Dynamic referencing compensates for movement
- Dramatically reduce the time required to program robots

Key Benefits:

- Improved in-process quality
- Increased productivity
- Reduced scrap/rework

Medical - Real-time 3D tracking for computer-aided surgery and therapy



Applications:

- Image-guided radiation therapy
- Minimally invasive neurosurgery
- Patient movement tracking
- Dental implantology
- Orthopedic surgery

Product Features:

- High accuracy due to active markers and camera resolution
- Optimum tool design due to flexibility of LED placement
- Compact, all-in-one system with wireless capability

Key Benefit:

- Improved surgical outcomes due to improved navigation, accuracy, and repeatability

Commercial - Portable 3D measurement tool for commercial applications



Applications:

- Marine canvas fabrication & teak decking
- Conversion vans and custom vehicle up fitting
- Custom doors, windows, and furniture
- Curved glass and complex window shapes
- As-built documentation for construction
- Metal tube bending

Product Features:

- Wireless probe provides freedom of movement and the ability to measure beyond line-of-sight
- Compact, all-in-one system for “plug & play” simplicity and easy mobility
- Battery powered for all-day use in environments without line voltage

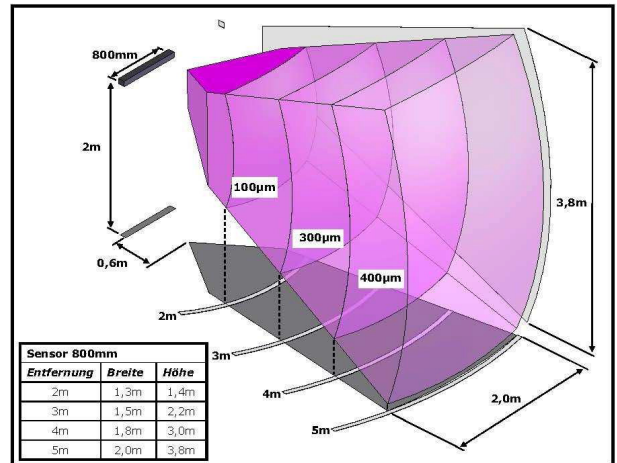
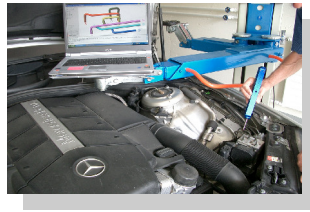
Key Benefits:

- Increased productivity, simplified workflow and lower cost/rework

Technical Information

How does the 3D CREATOR compare to other 3D measurement technologies?

The 3D CREATOR works much like a Coordinate Measurement Machine (CMM), measurement arm or laser tracker, except that it offers complete freedom of movement, excellent portability, and the ability to measure/track moving objects. It is also among the most affordable 3D measurement solutions on the market.



Technical Data

Attribute	Specification	Comments
Tracking	Up to 40 LEDs concurrently	Multiple tool capability
Acquisition speed	Up to 900 Hz	Great for scanning applications
Data output	x, y, z coordinates and u, v vectors	User configurable format
Camera bar length	300, 600, 900 & 1200 mm	Approx. 12, 24, 36 & 48 inches
Probe lengths	200, 400, 600 mm	Approx. 8, 16 & 24 inches
Shipping Weight	Up to 18 kg (40 lbs)	Includes system, accessories and wheeled case
Operating temperature	10-35 °C	Temperature compensated camera bar
Power input	100-240 VAC, 50/60 Hz	Battery power option available
Accuracy	Up to 100 microns (0.004 inches)	Varies based on camera bar length, range and other factors
Range	Up to 10 meters	Varies based on camera bar length, accuracy and other factors
Field of view	Up to 60 degrees	User specified
OS compatibility	Windows	32 or 64 bit
Sunlight mitigation	Yes	Optional
Wireless data transmission	Yes	Wired also available
Multiple camera systems	Yes	Create local "GPS" zone

Typical Applications

- Shop floor part-to-CAD inspection
- Design of aftermarket auto parts
- Surgical navigation, patient monitoring & orthopedics
- Spinal analysis, bicycle fitting, and bone density research
- Marine fabrication, as-built construction & automotive seating

Customer Outcomes

- Improved in-process quality and reduced scrap/rework
- Increased productivity and reduced development time
- Superior patient outcomes due to better navigation, accuracy & alignment
- Exceptional accuracy, versatility, and affordability
- Better accuracy, simplified workflow & improved productivity

Key Features

- Large Measurement Volume
- Wireless & Armless
- All-in-One Design
- Impressive Accuracy
- Dynamic Measurement
- Surprisingly Affordable

Benefits

- Wide field of view and range of up to 10 meters
- Freedom of movement and ability to capture "hidden" points
- Compact size, quick setup, and easy to transport
- RMS error of 100 microns (0.004 inches) in target area
- Accurately measure or track moving objects in real time
- Best-in-class value and attractive ROI

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