

3D CREATOR PRODUCT INFORMATION

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. Using patented optical technology and a wireless design, the 3D CREATOR permits complete freedom of movement within a range as large as 10 meters.

The 3D CREATOR is easily transported and can be used in shop floor and outdoor environments. Its powerful dynamic referencing capability permits the system to accurately measure moving objects or rapidly digitize large objects.

The combination of accuracy, range, and affordability has made the 3D CREATOR the logical choice for thousands of customers in manufacturing, engineering, medicine, life sciences, and commercial fabrication.

Typical Applications



Customer Outcomes

- 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

- 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



Benefits

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

- 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



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 2000, XP, Vista, and 7	32 or 64 bit
Sunlight mitigation	Yes	Optional
Wireless data transmission	Yes	Wired also available
Multiple camera systems	Yes	Create local "GPS" zone

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.

Compatible with Popular Software

The 3D CREATOR seamlessly interfaces with the most popular metrology and CAD/CAM software solutions, including SolidWorks, Autodesk Inventor, Rhino, Geomagic, Rapidform, Verisurf, Mastercam, PolyWorks, PowerINSPECT, and others.

Flexible Design to Meet Your Requirements

The 3D CREATOR can be configured to meet the unique requirements of each application, including accuracy, range, field of view, mobility, and environmental conditions. Our application engineers and certified resellers will be glad to assist you in specifying the best system for your application!

Contact Information

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