

**NEW!**

## SceneVision-3D Software and Faro Focus<sup>3D</sup> Laser Scanner

SceneVision-3D Software, the leading 3D crime scene reconstruction software, is used by dozens of law enforcement agencies across the U.S. Now SceneVision-3D is available integrated with the groundbreaking new 3D scanner from Faro – the Focus<sup>3D</sup> Laser Scanner. The Focus<sup>3D</sup> has revolutionized 3D laser scanning. It's a long distance, high speed, very accurate scanner – effective both indoors and out – and includes high-resolution color. It is far more compact, lighter, easier to use, and more affordable than any 3D scanner available. When combined with the measurement, analysis, and presentation capabilities of SceneVision-3D, it's an unbeatable solution for crime scene capture, reconstruction, analysis and display.



### *Some of Our Law Enforcement Users*

- Baton Rouge Police Department (LA)
- Bergen County Criminal Investigation (NJ)
- Cameron County DA (TX)
- FBI Laboratory (VA)
- Fayetteville Police Department (NC)
- Fort Bend County Sheriff's Office (TX)
- Gaston County Police Department (NC)
- Glynn County Police Department (GA)
- Harris County Sheriff's Office (TX)
- Henry C. Lee Inst. of Forensic Science (CT)
- Hong Kong Fire Service
- Humberstone Police (UK)
- Independence Police Department (MO)
- Iredell County Sheriff's Office (NC)
- Knoxville Police Department (TN)
- Montgomery County Fire and Rescue (MD)
- Lake County Major Crimes Task Force (IL)
- Montgomery County Fire & Rescue (MD)
- North Carolina SBI (2)
- North Carolina State Univ. Forensics
- Penn State Forensic Science
- St. Charles County Sheriff's Office (MO)
- St. Lucie County Sheriff's Office (FL)
- Tuscaloosa Police Department (AL)
- U.S. Army Criminal Investigation Lab (GA)
- Waco Police Dept. (TX)

### Features

- Long Range - Indoor and Out
- Compact & Lightweight – internal battery and memory; no cables
- Fast and Accurate – 360° scans with color in about 4 minutes
- High Resolution Color
- Easy to Use – intuitive touch screen controls
- Perfect for courtroom presentations
- Affordable



### Complete Crime Scene Package

- Focs3D 120 3D Laser Scanner
- Carbon Fibre Tripod Kit
- SceneVision-3D Software
- High-performance Graphics Laptop
- SceneVision-3D Viewer
- 3 Day, Onsite Training

**All for about \$60,000**



## SceneVision-3D Software Specifications



- Align multiple scans to create a single model
  - View and present many forms of your data
    - 3D VRML models with or without color
    - Image data in TIFF, JPEG and other standard formats
    - RTPI files (laser range data) with or without color
    - Panoramic images
    - Text files used for annotation
  - Draw on VRML, image and/or range data (in 2D or 3D)
    - Measurement lines between any two points
    - Measurement lines from a point perpendicular to a plane
    - Points, planes, spheres, trajectory and sight lines
    - Outlines of objects
  - Identify planes corresponding to walls, floors and ceilings
  - Patented technique for embedding high-resolution close-up photos in 3D models
  - Add photos/images as "hot spots" in the data
  - Add labels and text notes to any of the individual elements - points, lines, planes, hot spots
  - Produce 'ViewPoints' illustrating views of people at the scene
  - Patented blood stain pattern analysis - automatically produce trajectories in 3D models representing the path of the blood
  - Add models of people for simulation and animation
- System Requirements - PC/Laptop, Windows XP/Vista/7, 3D Graphics card



## Focus3D Laser Scanner Specifications

### Ranging unit

- Unambiguity interval: 153.49m (503.58ft)
- Range: 0.6m - 120m indoor or outdoor with low ambient light and normal incidence to a 90% reflective surface
- Measurement speed: 122,000 / 244,000 / 488,000 / 976,000 points/sec
- Ranging error:  $\pm 2\text{mm}$  at 10m and 25m, each at 90% and 10% reflectivity
- Ranging noise:
  - @10m - raw data: 0.6mm @ 90% refl. | 1.2mm @ 10% refl.
  - @10m - noise compressed: 0.3mm @ 90% refl. | 0.6mm @ 10% refl.
  - @25m - raw data: 0.95mm @ 90% refl. | 2.2mm @ 10% refl.
  - @25m - noise compressed: 0.5mm @ 90% refl. | 1.1mm @ 10% refl.

### Color unit

- Resolution: Up to 70 megapixel color
- Dynamic color feature: Automatic adaption of brightness

### Deflection unit

- Vertical field of view: 305°
- Horizontal field of view: 360°
- Vertical step size: 0.009° (40,960 3D pixels on 360°)
- Horizontal step size: 0.009° (40,960 3D pixels on 360°)
- Max. vertical scan speed: 5,820rpm or 97Hz

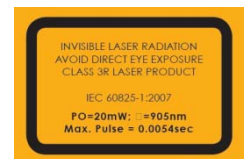
### Laser (Optical transmitter)

- Laser power (cw Ø): 20mW (Laser class 3R)
- Wavelength: 905nm
- Beam divergence: Typical 0.16mrad (0.009°)
- Beam diameter at exit: 3.8mm, circular

### Data handling and control

- Data storage: SD, SDHC™, SDXC™; 32GB card included
- Scanner control: Via touch- screen display

- Power supply voltage: 19V (external supply), 14.4V (internal battery)
- Power consumption: 40W and 80W respectively (while battery charges)
- Battery life: Up to 5 hours
- Ambient temperature: 5° - 40°C
- Humidity: Non-condensing
- Cable connector: Located in scanner mount
- Weight: 5.0kg
- Size: 240x200x100mm<sup>3</sup>
- Maintenance calibration: Annual
- Parallax-free: Yes
- Dual-axes inclination sensor: Accuracy 0.015°; Range  $\pm 5^\circ$



## 3rdTech, Inc.

2500 Meridian Parkway, Suite 150  
 Durham, NC 27713  
 Phone: (919) 361-2148  
 Fax: (919) 484-1092  
[info@3rdtech.com](mailto:info@3rdtech.com)  
[www.deltasphere.com](http://www.deltasphere.com)

