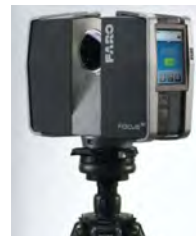




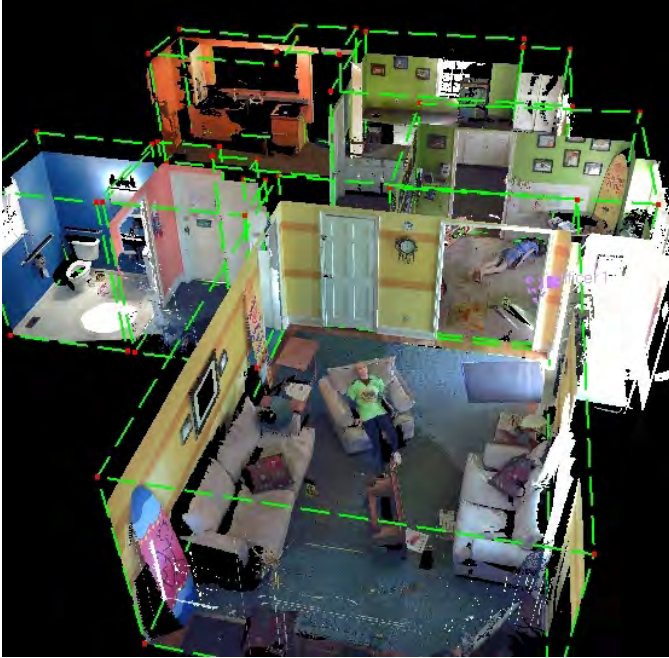
SceneVision-3D Software

and

Faro Focus^{3D} Laser Scanner

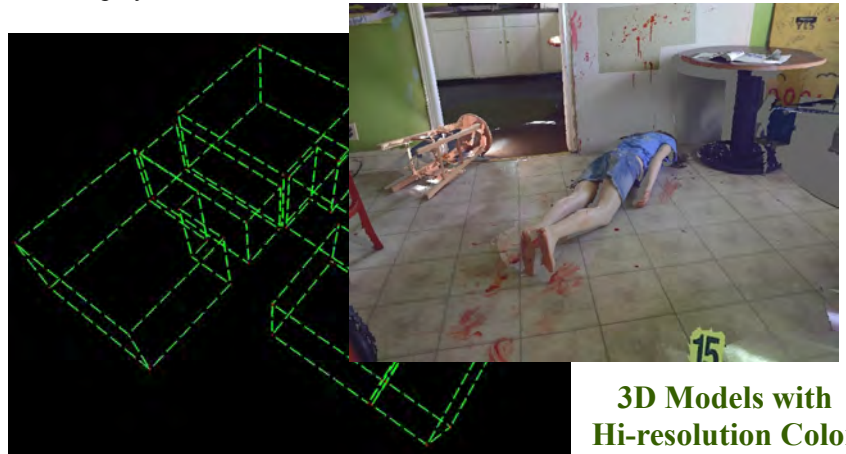


Total Solutions for Crime, Accident and Fire Scene 3D Reconstruction



3D Computer Graphics Models

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^{3D} Laser Scanner. The Focus^{3D} has revolutionized 3D laser scanning. It's a long distance, high speed, high resolution 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.

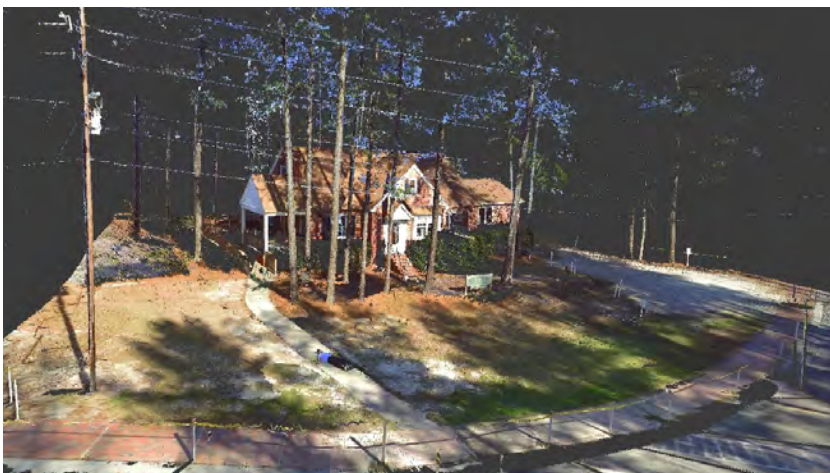


3D Models with Hi-resolution Color

SceneVision-3D Features

- **Photo-realistic 3D Models of Entire Scenes** – not just point clouds
- **Patented High-Resolution Color Insets** – close-up 3D views of blood stain, weapons, wounds, bullet holes, documents, footprints
- **Easy to use Measurement Tools** – for house diagrams, bullet and blood trajectories, angle measurements
- **Panoramic 360° Images** – automatic, flawless, 360° photographic views of a scene
- **East to create Walk-throughs** – for clear, effective, effortless courtroom presentations
- **Patented Blood Stain Pattern Analysis** – automatically produce trajectories in 3D models

3D Models of Outdoor Scenes



Fast, Accurate Diagrams

Focus3D Features

- **Small and Lightweight** – Just 12 lbs.; uses a standard photographer's tripod instead of a bulky surveyor's tripod
- **Fast and Accurate** - 360° scans with 12 million points and 85 photographs in about 3 minutes. 28 million points in about 6 minutes
- **Long range** – scans to 120m (390 ft.)
- **Easy to Use** – simple touch screen controls. Data stored on a standard SD card
- **Affordable** – a fraction of the cost of other 3D scanner systems

Complete Crime Scene Package

- Focus3D 120 3D Laser Scanner
- Carbon Fibre Tripod Kit
- SceneVision-3D Software
- High-performance Graphics Laptop
- SceneVision-3D Viewer
- 3D, Onsite Training

All for less than \$60,000

What can SceneVision-3D Software and the Faro Focus3D Laser Scanner Do For You?

Capture All the Measurements of a Scene

- 360° scans in minutes - capture millions of measurements per scan
- The scene is captured forever! Revisit the scene any time – months or years later
- Make new measurements in the scene on demand at any time. Even during a trial.

Quickly Produce Diagrams of a Scene

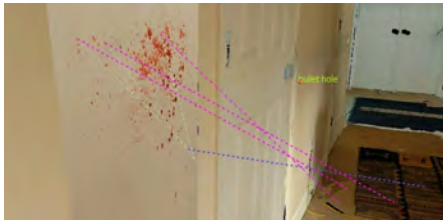
- 5 minutes or less to align and combine each scan. Just minutes more to produce a model.
- Use the 'wall wizard' to quickly produce the edges of each room – with measurements
- Create 3D floor plans of buildings for emergency preparedness and training
- Add the outlines and measurements of windows, furniture and other objects
- Show measurements between any two points
- View the model from any direction
- Print images of the model or orthographic views of just the outlines you've created

Add Information to the Model

- Place markers for locations of people or objects
- Add hyperlinks to photographs and documents connected to any point in the scene
- Add notes corresponding to any 3D location
- Show bullet or blood spatter trajectories
- Measure angles and perpendicular distances
- Position figures to illustrate the crime with Poser Pro software

Create Full-color 3D Computer Graphics Models and Color Photographic Panoramas for Analysis, and Courtroom Presentation

- Use the Focus3D color option to capture hundreds of high-resolution photographs at the scene
- Automatically align the photographs to the laser data producing full-color 'point clouds'
- Automatically produce a high-quality, full-color, 3D model from these point clouds – much more realistic than point clouds.
- Create 'walk-throughs' by identifying and saving viewpoints for display



Focus3D Laser Scanner Specifications

Ranging Unit

Unambiguity interval: 153.49m (503.58ft)

Range Focus_{3D} 120i: 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: ±2mm at 10m & 25m, 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: 240x200x100mm³

Maintenance calibration: Annual

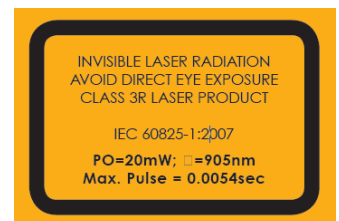
Parallax-free: Yes

Dual-axes inclination sensor: Accuracy 0.015°; Range ±5°



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



3rdTech, Inc.

2500 Meridian Parkway
Suite 150

Durham, NC 27713

Phone: (919) 361-2148

Fax: (919) 484-1092

info@3rdtech.com

www.3rdtech.com

Prices and specifications subject to change without notice 040812

