

RC7373 - Meet the Reality Computing Hardware!

ReCap Booth #268 – Tuesday, Dec 2, 6:30 – 7:30 pm

Dominique Pouliquen

Marketing Director, Reality Solutions, Autodesk

#recap360

3Rivers3D – STEM3D Desktop Scanner

STEM3D

- Technology type
 - High resolution, desktop laser scanner
- Specifications
 - One-button creation of watertight model
 - 10" x 6" x 6" field of view
 - 100um accuracy / 300um point spacing
 - 30 sec per individual scan / 5 min for 360deg scan
 - Optional turntable
- Use cases
 - Scanning of small objects including: models, toys, sculptures, mechanical parts, artifacts, etc.
- Booth #
 - If your company is exhibiting at AU
- Contact person
 - General info: scans@3rivers3d.com
 - Show info: dshelton@3rivers3d.com / 412-818-8829



Fully-automated one-button scanner (STEM3D by 3Rivers3D)



One-button scan result (STEM3D by 3Rivers3D)

Artec Group, Inc

Artec 3D scanner

- Hand-held 3D scanner
 - Body scanning, objects scanning
- Specifications
 - White light, structured light technology, no laser
 - <http://www.artec3d.com/hardware/artec-eva/specifications/>
 - <http://www.artec3d.com/hardware/artec-spider/specifications/>
- Use cases
 - Scanning of objects, humans, parts of human bodies, industrial parts,
- Contact person
 - Anna Galdina
 - Account manager
 - agaldina@artec-group.com
 - 408 442 7412



CultLab3D – On the verge of 3D mass digitization

CultLab3D

- Type of solution
 - Worldwide first, fast and economic 3D mass digitization pipeline
- Specifications
 - 3D digitization in under 10 minutes
- Use cases
 - 3D Scanning of entire collections of cultural heritage artifacts
- Booth #
 - 268
- Contact person
 - Pedro Santos, Fraunhofer IGD, Germany
 - pedro.santos@igd.fraunhofer.de
 - +4916097804959



(photo: Norbert Miguletz; © Liebieghaus Skulpturensammlung)



(photo: Norbert Miguletz; © Liebieghaus Skulpturensammlung)

DPI-7 Imager

- Handheld 3D Capture Solution
 - Engineering-grade, color 3D imaging on an Android tablet
- Specifications
 - Complete mobile scanning unit, powered by Phi.3D software
 - Real-time point cloud capture, processing, and review
 - Calibrated RGB-D sensor & 7-inch tablet
 - Optional 6-18 foot extension pole
- Use cases
 - BIM Data Collection & Analysis
 - As-Built Documentation & Industrial Facility Management
 - Custom Design & Renovation
 - Crime Scene Forensics & Accident Reconstruction
 - Archaeological Documentation & Digital Preservation
- Booth #280
- Contact: Tom Greaves, CMO
 - +1 978-766-7050, tom@dotproduct3d.com



Spool verification with the DPI-7 at an oil refinery in New Orleans



Mechanical room point cloud captured with the DPI-7

FARO / Focus3D X 330

FARO Focus3D X 330 Laser Scanner

- Technology type
 - Terrestrial laser
- Specifications
 - Captures nearly 1 million points per second with accuracy up to 2mm and noise less than a third of a millimeter.
 - 330 m range
 - Class 1 laser, completely eye safe
 - Fully integrated color camera, GPS, and dual axis-compensator
- Use cases
 - Scanning of buildings and infrastructure, land surveying, and inspection or reverse engineering of vehicles and mining equipment
- Booth #269
- Contact person
 - Matthew Daly, 925.876.2629, matthew.daly@faro.com



ikeGPS / Spike



- Laser accurate Smartphone measurement solution
 - Spike enables you to measure an object simply by taking a photo from your Smartphone or Tablet
- Specifications
 - Spike's laser rangefinder and Bluetooth connect with your Smartphone's camera, GPS, Bluetooth, compass, and connection to the Internet
 - The Spike app supports iPhone or iPad devices running iOS v7.1+, Android v4.4+ Smartphones or Tablets
- Capabilities
 - From a photo, capture real time measurements including height, width, area, length, and target location (latitude, longitude, altitude)
 - Measure objects from up to 650ft/200m away
- Contact: Brian Soliday, Senior VP, Sales
 - Email: brian.soliday@ikegps.com
 - Phone: +1 303 250 5537



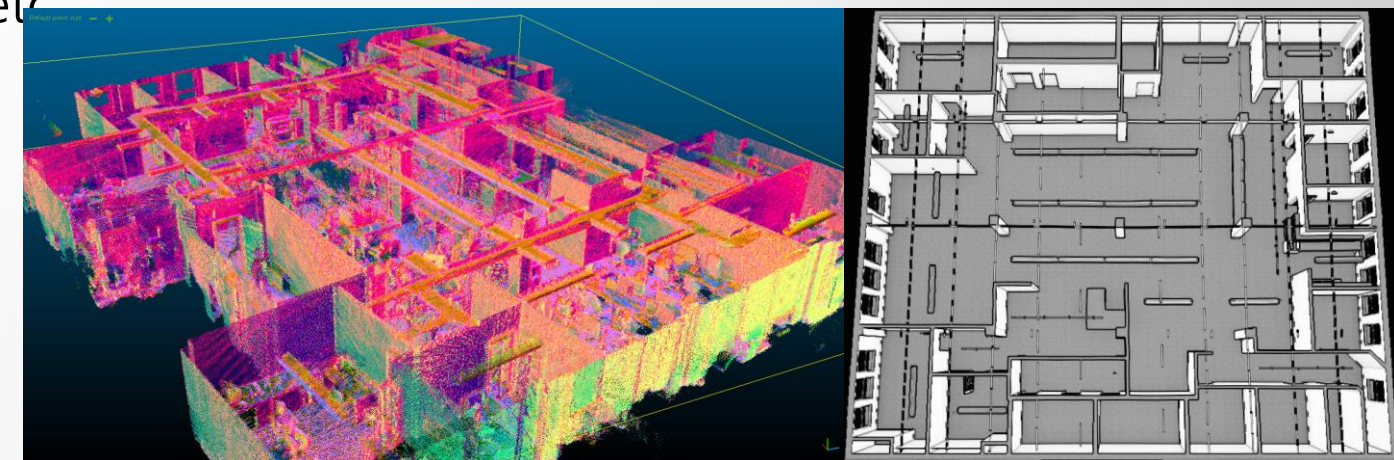
Near Earth Autonomy, Inc.

Contour

- Technology type
 - Handheld 3D Laser Scanning System
- Specifications
 - Range: 30 meters
 - Data Rate: 43,200 points per second
 - Output formats for CAD and photorealistic coloring algorithms with registered onboard HD Color Camera
- Use cases
 - Real-time 3D model generation of As-built multi-room interiors, multi-floor plans, buildings, pipelines, industrial plants and infrastructure, etc for planning and maintenance purposes.
 - Reconstruction of traffic accidents, building fires and floods, train derailments, crime scenes, damaged infrastructure, etc.
- Contact
 - Dave Duggins (dave@nearearth.aero) 412.877.5587



Contour Handheld Scanner

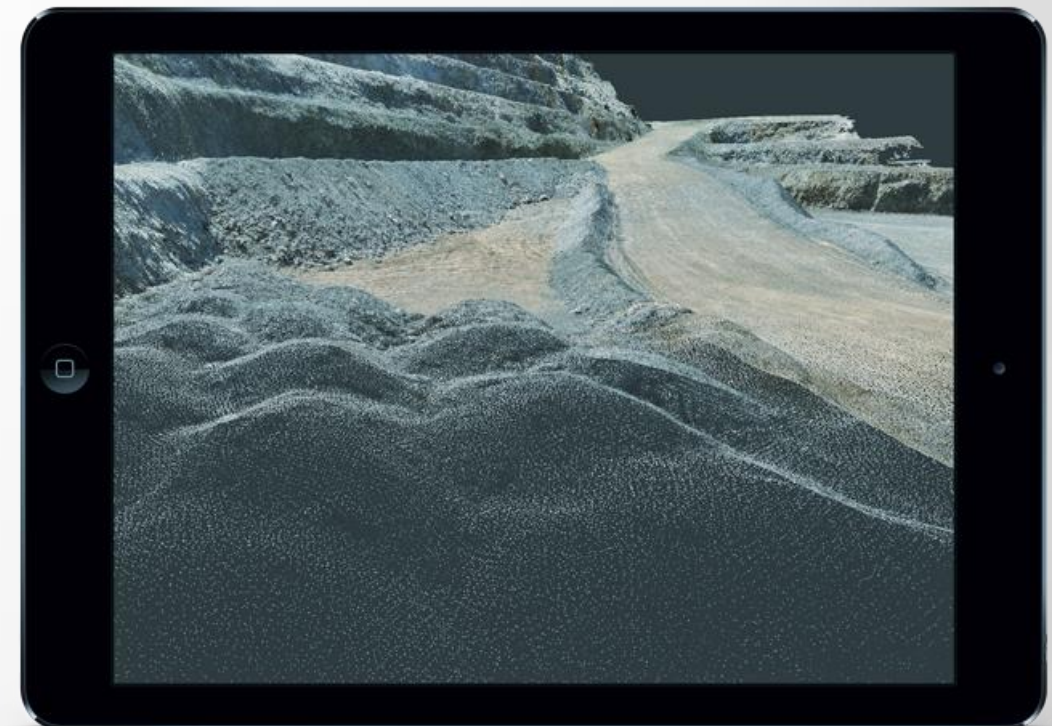


Contour generated 3D point cloud and post-generated BIM

Skycatch

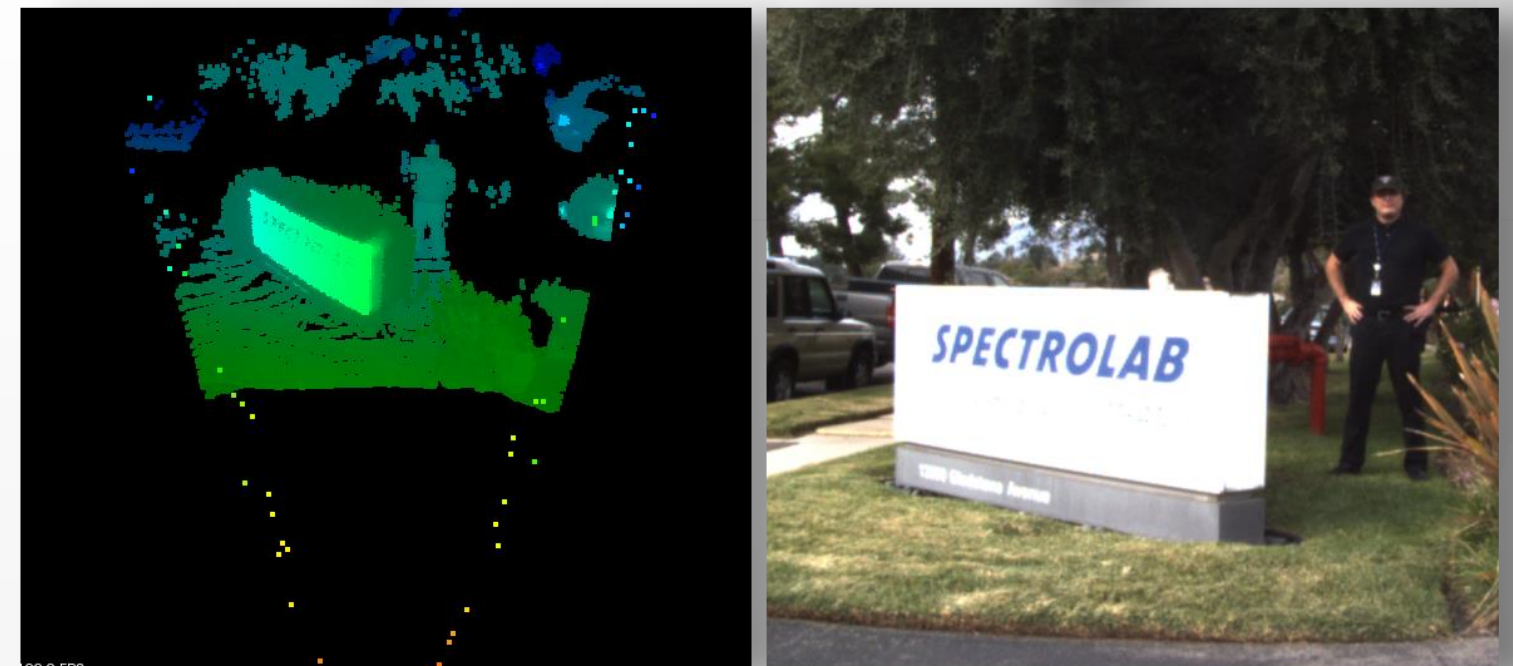
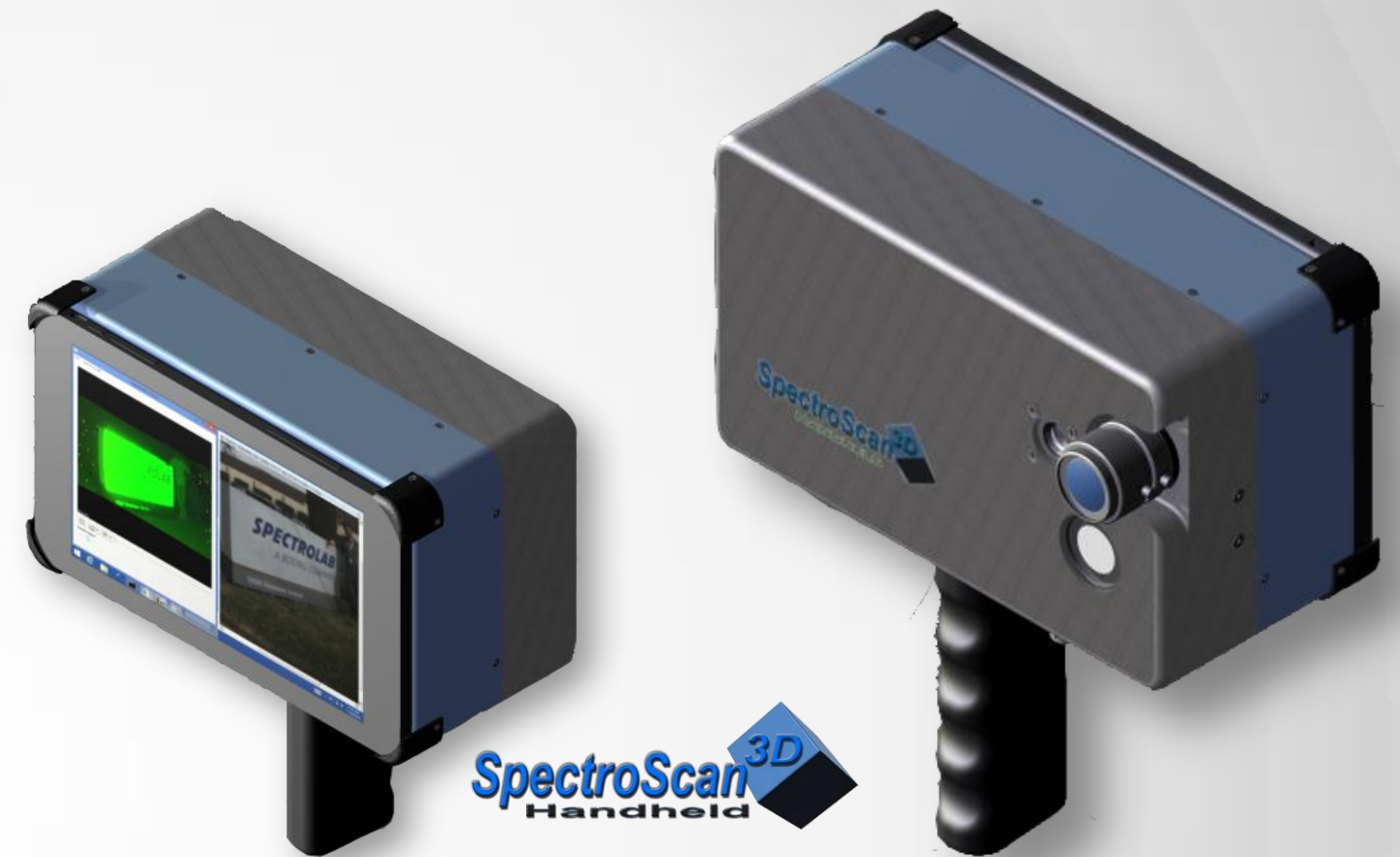


- Technology Type
 - Autonomous Data Collection UAV
- Specifications
 - All-weather operation: rain, winds up to 30 mph
 - 24 hour on station time with autolanding and battery charging ground station
 - Fully autonomous -- generate maps and point clouds by commanding the UAV via the web
- Use Cases
 - BIM, survey, mining, oil & gas, energy
- Booth # 281
- Contact
 - Mark Heynen, SVP, Client Operations
 - mark@skycatch.com



SpectroScan 3D Handheld

- Technology type
 - Short range, time of flight, MEMS Laser Scanner
- Specifications
 - 25 meter range
 - RGB+D image
 - External battery, and tablet based operation
- Use cases
 - Indoor and outdoor scanning of objects, rooms, interiors, buildings, and infrastructure.
- Booth # 74
- Contact person
 - Mr. Luis A. Castro, Business Development Manager, Illumination and Sensor Products
 - Office: 818-898-2820
 - Email: luis.a.castro@boeing.com



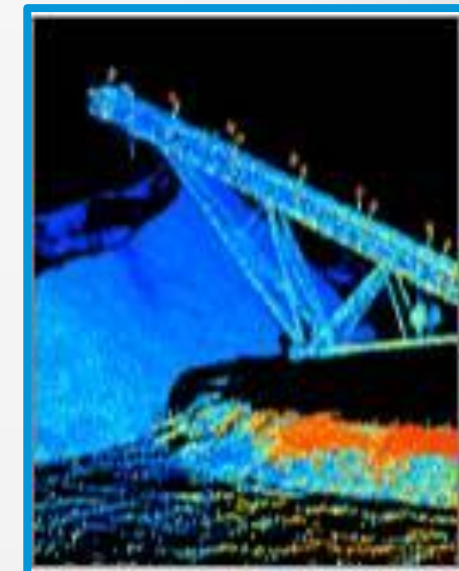
Topcon GLS-2000

GLS-2000 Terrestrial 3D Laser Scanner

- Pulse time-of-flight (TOF) laser with waveform signal processing
- Single Point Accuracy:
 - Range: 1 to 150 m - 3.5 mm, 1 σ
 - Angle: 6"
- Applications:
 - Forensics
 - Process, Power, & Plant
 - Building Construction (BIM)
 - Civil/ Infrastructure
 - Mining/ Aggregates
- Booth # 129
- Contact: Brad Burgess, Sales Manager-Laser Scanning
 - PH: (708) 306-6629
 - Email: bburgess@topcon.com



GLS-2000

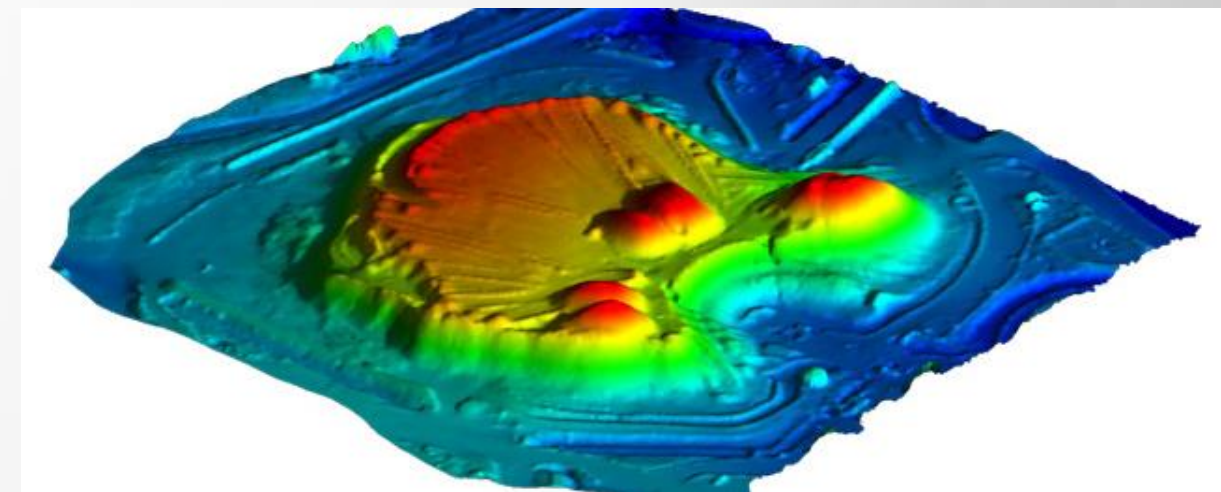


Coal Stockpile

Topcon Positioning Systems / SIRIUS PRO UAS

Sirius Pro UAS

- Technology
 - Simply Hand Launch
 - 2-5cm Accuracy with GNSS RTK
 - Cruise Speed 40 mph
 - Flight Time 55 min.
- Use cases
 - Mining/ Aggregates
 - Construction – Surveying
 - Disaster / Environmental Management
- Booth # 129
- Contact: Dave Henderson – Director Sales - Geospatial
 - Email: dhenderson@topcon.com
 - PH: 214-923-1910



Z+F IMAGER 5010C

- Technology type
 - Terrestrial, Phase-Shift Laser Scanner
- Specifications
 - 187m Range
 - HDR Camera
 - Range Resolution 0.1mm
 - Linearity Error < 1mm
 - 1.016 million p/s maximum acquisition rate
 - IP 53
- Use cases
 - Process Industry, Mining and Tunneling, Infrastructure, Mapping, Heritage, Architecture,
- Booth #264
- Contact person
 - Jeremey Clements, jclements@zf-usa.com, 412-257-8575 ext. 113

Mobile

