KAARTA®

RAPID AND ACCURATE MOBILE 3D SCAN TECHNOLOGY

> " KAARTA IS **EFFICIENT**, ALLOWING CONCOURSE TO **MAP AN ENTIRE SPACE IN A MATTER OF MINUTES**, SAVING OUR CLIENTS **TIME AND MONEY** AND DELIVERING THE **LEVEL OF ACCURACY** THEY EXPECT. "
>
> GEOFF PERKINS, CEO - **CONCOURSE FEDERAL**

WHY CHOOSE BETWEEN SPEED AND ACCURACY?

ACCURATE

INTERIOR
±1cm within one room
±2cm over 30m distance
Verified with total station
measurements

EXTERIOR
4cm RMS with GNSS
correction (RTK & PPK)

FAST AND EFFICIENT
Capture in the time it takes to walk (or drive) the space – often in the time it would take for one tripod setup. Verify data with live scan view. Perfect when site access is limited.

FLEXIBLE
Capture challenging environments by going where no tripod-mounted scanner can go. Get complete 3D geometry of objects.
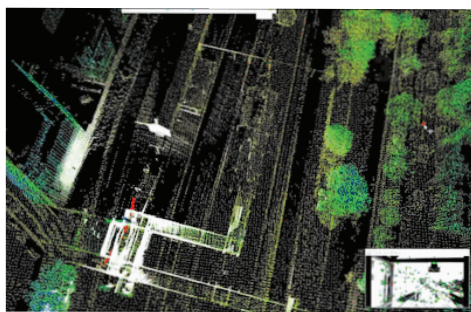
INTELLIGENT
Benefit from a sohpisticated, purpose-built mapping and localization engine as well as advanced post processing optimization tools.
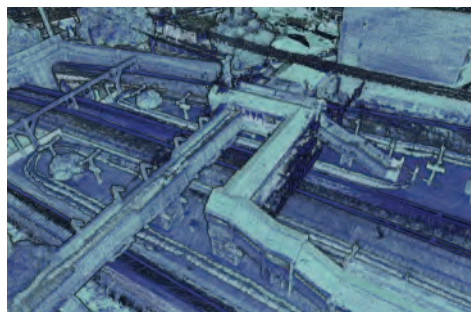
INTEGRATED
Merge mobile data with terrestrial or aerial data in post, or load and resume from the coordinate system of a prior map.

THE FAST TRACK FROM CAPTURE TO ANSWER

RAPID CAPTURE FROM
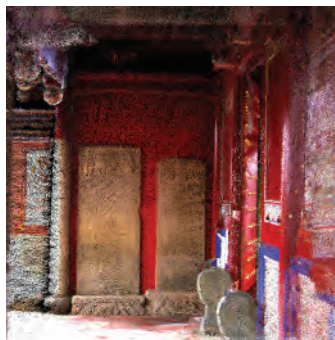MANY VIEWPOINTS

OPTIMIZE POINT
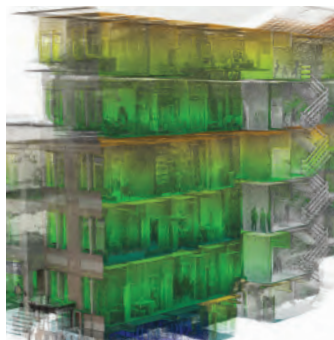CLOUD RESULTS

KICKSTART THE 3D
MODELING WORKFLOW

CONTOUR

All-in-one, mobile 3D color scan technology powers a capture system for interior mapping and tight, complex spaces, speeding the workflow from scan to BIM. Live scanning user interface guides the user to ensure the capture of the best possible data.
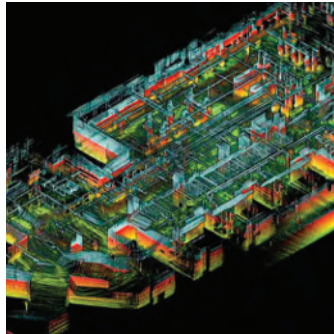
Colorized point cloud of Tainan Confucian temple

Cutaway of six story hospital scanned while fully operational
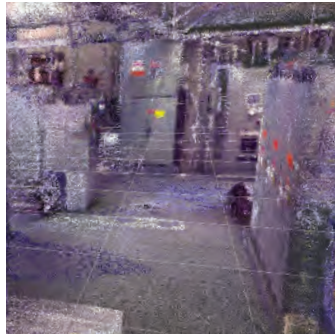
Generating station interior scanned for creating a risk assessment model

Marine vessel ballast system - model merges Contouor data with Faro data
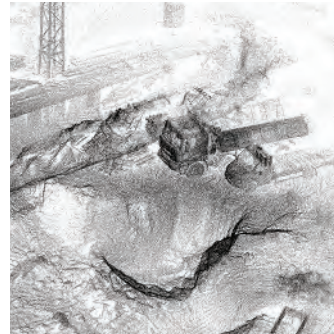
STENCIL

A flexible handheld or vehicle mounted platform for long-range, high density mobile 3D scanning for a wide variety of outdoor and large-scale interior applications. Map without external signals, or add GNSS signal to correct for drift over large areas.
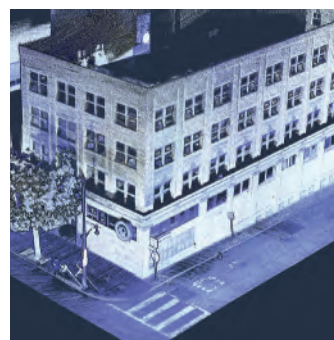
Building exterior scanned at street level demonstrates Stencil's range and density

Road data captured with vehicle mounted Stencil is aligned to Reigl aerial data
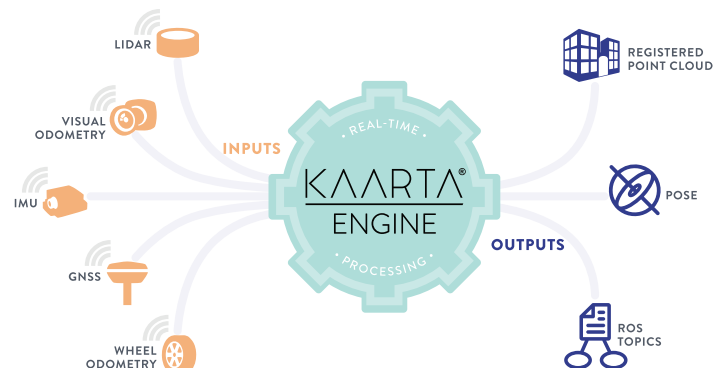
Frequent construction site scanning for volumetric measuring of material removal

Large office interior demonstrating Stencil's geometric and visual fidelity

KAARTA ENGINE: UNLEASH THE MAGIC INSIDE

Kaarta Engine is our purpose-built 3D mapping and localization algorithms that artfully solve the SLAM problem of both capturing what is around it and where it is in that environment relative to the map. Kaarta's unparalleled expertise in localization – a result of our deep robotics roots – is fundamental to our patent-pending approach to solving the SLAM problem, surpassing the drift error of alternative systems by an order of magnitude.

LIDAR

VISUAL ODOMETRY

IMU

GNSS

WHEEL ODOMETRY

INPUTS

KAARTA® ENGINE

REAL-TIME

PROCESSING

OUTPUTS

REGISTERED POINT CLOUD

POSE

ROS TOPICS

KAARTA®

5001 Baum Boulevard Suite 430
Pittsburgh, PA 15213 USA
www.kaarta.com | info@kaarta.com

BR-OVW-001-0919