

CONTOUR

POWERED BY KAARTA ENGINE

KAARTA™

Integrated, hand carried real-time 3D mapping system

Kaarta Contour™ enables 3D modeling from input to output in real time, condensing the workflow process by eliminating time and cost, and allowing decision-making at the point of work.

Lightweight and battery powered, Contour is hand carried through an environment as it scans to generate a 3D map without additional infrastructure. A typical 10,000 sq m (110,000 sq ft) space can be scanned in about 2.5 hours.

The onboard touchscreen enhances Contour's ease and usability. The screen displays the model as it's being built in real time, allowing the user to improve results during mapping and even control the display to provide immediate knowledge of the environment. Users are able to pause, rewind, and resume during scanning.

Kaarta Engine, Kaarta's patent-pending advanced 3D mapping and localization algorithms, is at the heart of Contour, providing highly accurate and robust maps.

Contour is ideal for scanning as-built multi-room interiors, multi-floor plans, buildings, industrial plants and infrastructure and more for both planning and maintenance purposes.



SPECIFICATIONS

FORMAT	.ply or .las
FEATURES	Baseline mapping Pause, rewind, resume during scanning Merge maps for large and complex areas Add on mapping is compatible with files produced with Kaarta Stencil™
IMU	Internal MEMS-based IMU Six DOF: X, Y, Z, Roll, Pitch, Yaw
PROCESSOR	Intel i7 dual core
PORT	1 USB 3.0
STORAGE	250 GB SSD
LASER	20m range 190° horizontal FOV 190° vertical FOV Accurate to ± 3cm
CAMERA	Onboard HD color camera
SCREEN	18cm (7") touchscreen
WEIGHT	2.78 kg (6.13 lb)
POWER	Input 12-24 vDC
SPEED	~5km/hr (3.1mph) typical walking speed ~ 2.5 hrs to scan 10k sq m (110,000 sq ft)
MOUNTING	Hand-held
INCLUDED ACCESSORIES	23000 mAh, 85W external battery for additional run time AC power adaptor
WARRANTY	90 days

MODEL NUMBERS

KRT-CNT-XX-00-010: Contour
KRT-CNT-SW-00-010: 1 year software service
KRT-CNT-HW-01-010: 1 year extended hardware warranty
KRT-CNT-HW-02-010: 2 year extended hardware warranty

KAARTA ENGINE FEATURES

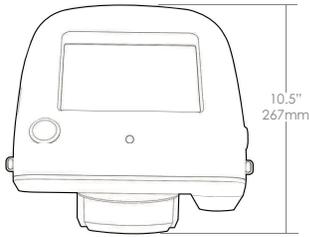
Real-time registered point cloud generation
Real-time localization
Multi-sensor input (IMU, feature camera, lidar)
Continuously self-correcting minimal drift techniques
Implicit loop closure
Point-of-scan work confirmation
Fast, explicit loop closure at point of scan
Point cloud sharpening technology
Thinning tool to improve model crispness
Patent-pending technology

CONTOUR

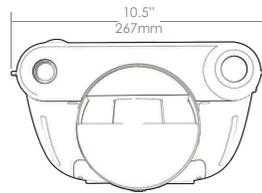
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DIMENSIONS

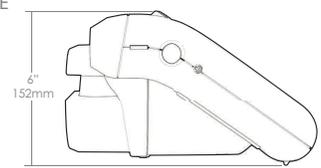
TOP



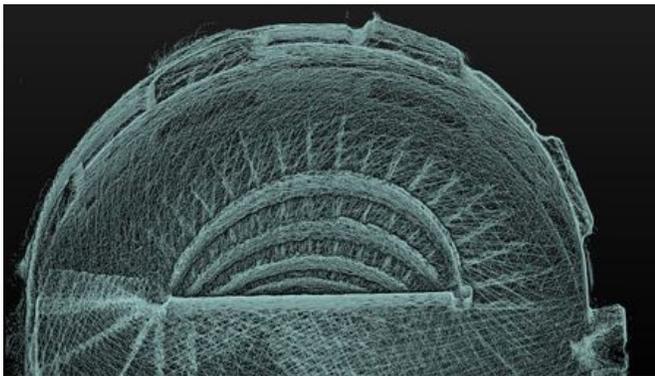
FRONT



SIDE



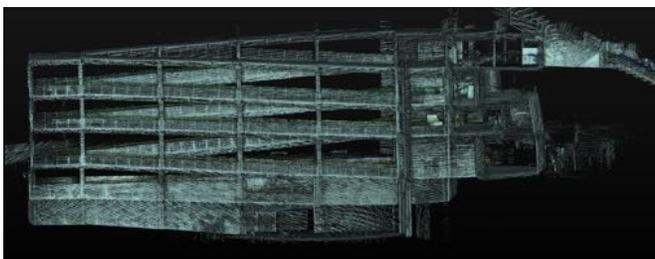
SAMPLE OUTPUT



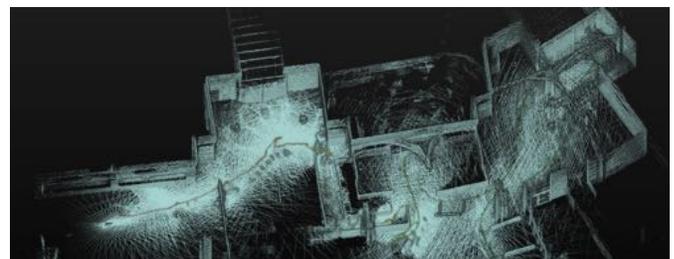
Model of a geometrical spiral metal staircase created by walking down the stairs, scanning in a single pass in under 10 minutes. No additional post-processing was applied.



A five story staircase showing many details of the structure. Traditionally stairs are extremely difficult to map since they are narrow and confining and there is a turn at every landing.



Five-level parking garage with ramped floors and full structure captured by walking the ramp from top to bottom.



Great Hall at Heinz Stadium. Point. Scan. Walk.