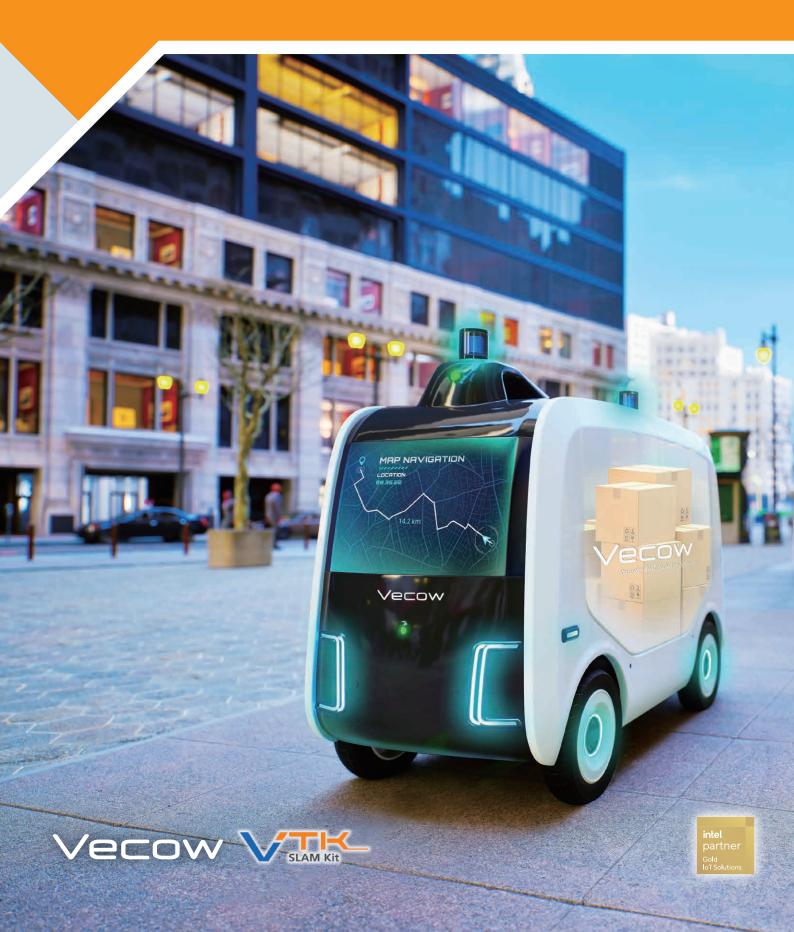
Unlock capabilities beyond sensor fusion SLAM Kit



VTK SLAM Kit

Simultaneous Localization and Mapping (SLAM) is a powerful technology that plays a crucial role in various industries. Whether you're in robotics, augmented reality, virtual reality, autonomous vehicles, or any other field that involves navigating and mapping unknown environments, SLAM can significantly enhance your capabilities.

Precision Navigation:

Ideal for robotics, drones, and autonomous vehicles, enabling accurate movement in unknown or dynamic environments.

Real-time 3D Mapping:

Creates detailed 3D maps in real-time, crucial for quick decision-making.

Versatility:

Adaptable across industries like manufacturing, public transportation, logistics, and healthcare, meeting diverse application needs.

Safety Enhancement:

By providing accurate environmental data for obstacle avoidance keeping asset safe.



Ready to use Edge Al Solution

VTK is a turn-key solution product that enables AI applications at the edge, such as traffic vision, surveillance, and factory automation. It enables real-time AI inferencing including video analytics, object recognition, and data processing, empowering businesses to make informed decisions swiftly with precision.



Industrial Grade Comprehensive

Enhanced reliability, durability, and performance providing long-lasting value to businesses.



Easy Deployment

Ready to use system integrated AI platform with pre-trained models and tools.



Hardware Ecosystem

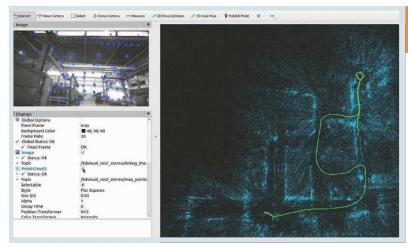
Diverse of hardware and software combinations suitable for all application scenarios.



Enterprise Reliability

User friendly, seamless and dependable operations for your business.

Application Scenario



Mapping

- · Flexible sensor setup integrates seamlessly with GNSS for precise mapping.
- · VTK excels in generating accurate point clouds in any environment.
- Faster time-to-market and broader effectiveness with GNSS compatibility.
- Real-time processing and Lidar flexibility enhance productivity in mapping with VTK SLAM.

Machine Learning

- · ML uses SLAM Map data for analysis and decisions.
- SLAM Maps provide high-quality data for ML model training.
- ML algorithms adapt with SLAM Map insights for real-time decisions.
- SLAM Map data access speeds ML model development



500 km - 1500 km

Fleet Management

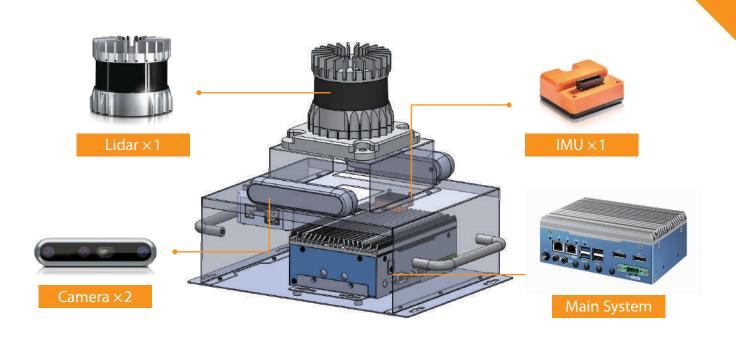
- · Independent vehicles maintain accurate navigation using a single SLAM map.
- Shared SLAM map ensures consistent positioning for multiple vehicles.
- · Vehicles collaborate effectively with a common SLAM map, enabling coordinated tasks.
- Sharing SLAM maps optimizes resources, increasing efficiency and reducing costs

IOT

- · VTK SLAM allows real-time collaboration on a shared cloud map for efficient warehouse management.
- Support for diverse devices and use cases on one map streamlines operations.
- · Gain insights into traffic and robot locations, optimizing warehouse initiatives with live data.
- · Simplify mapping and enhance efficiency in smart warehouses with VTK SLAM.



Product Specification For Standard VTK SLAM Kit, We provide...



SPC-7100

- · High-Performance Fanless System
- Intel[®] Core[™] i7/i5 Processor (Tiger Lake UP3)
- · DDR4 SO-DIMM 3200MHz 32GB
- Dual DisplayPort display, up to 4K resolution
- · Linux
- · 2 USB3.2 Gen1

Intel®RealSense™ Depth Camera D455

- Global shutter for both RGB and depth sensors
- · Depth accuracy of <2% at 4m
- · Compact form factor
- · High-resolution RGB sensor (1 MP)

Movella XSENS MTI-670

- · Small, IP51-rated GNSS/INS
- 0.2 deg roll/pitch & meter level position accuracy
- · Connects to external GNSS receiver

Ouster OS0-32

- · Fixed resolution per frame
- · Camera-grade near-infrared and intensity data
- · Multi-sensor crosstalk immunity
- · Introducing Dual Return Mode





- · Leading localization and mapping tech for precise tracking indoors and out.
- · Replaceable sensor; customize configurations for evaluation
- · Perpetual software license; unlimited kit usage
- · Reliable position tracking for faster product development.

Kudan SLAM Software (Lidar + Visual)

We support custome hardware configuration and Al applications, please contact Vecow at sales@vecow.com for more detail.

