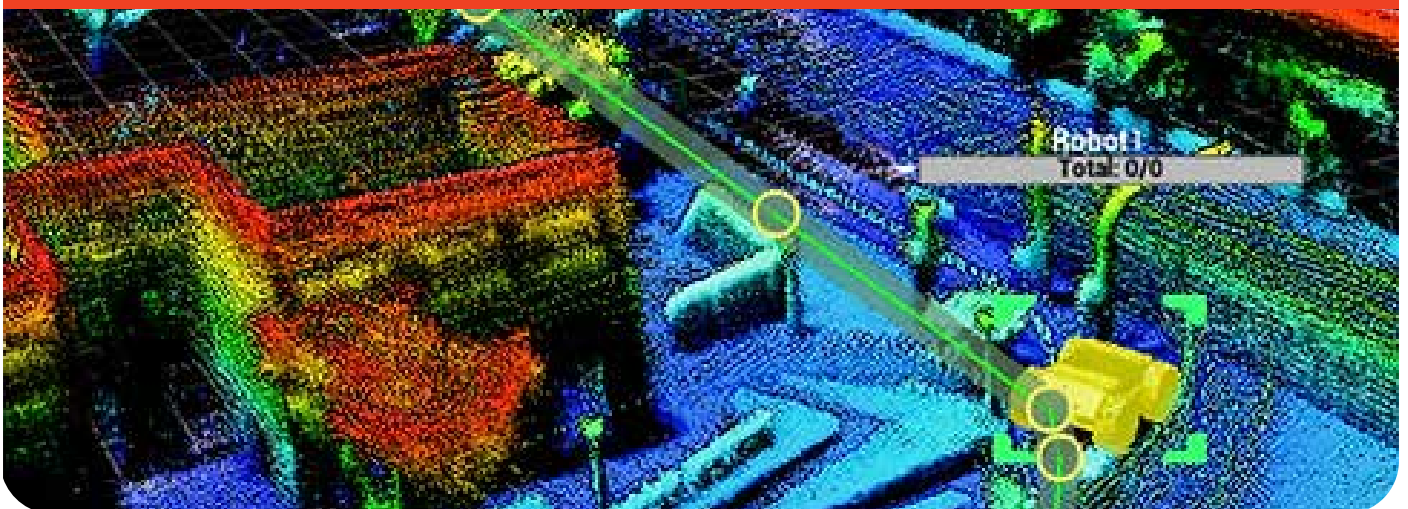


High Performance
Self-Driving Stack
for Robot Deployment



d.ASH Ops



d.ASH Ops



Experience the future of autonomous robot navigation with d.ASH Ops, the cutting-edge software solution that transforms the way robots interact with their surroundings. Our comprehensive suite of frameworks—Pilot, AutoDrive, and Waypoint Autonomy—creates a scalable, high-performance Self-Driving Stack for wheeled and legged robots, empowering you to command and control your robots effortlessly in 3D environment.



System requirements

- PC with a CPU equivalent to or greater than an Intel i5 4th Gen or AMD R5 2000 series
- Nvidia GTX 960
- 16GB of RAM
- Internet Connection
- Windows 10/11

We recommend using a discrete Nvidia GPU greater than or equivalent to an RTX 3060. Some features such as “HD View” are disabled on other GPUs.

Pilot

The Pilot framework is an all-in-one software app that offers high-performance, low-latency, long-range remote operations. It allows you to take manual control of your robots at any time, from any distance, and in any environment.

Our ultra-high-speed data streaming enables Pilot to stream live video feeds from robots over LTE and 4G cellular networks, facilitating operation in environments with weak network infrastructure. Stay connected with minimal latency, you can take control across the country with d.ASH Ops.

AutoDrive

AutoDrive software allows robots to navigate unstructured environments with minimal operator input autonomously. Using cameras alone, AutoDrive uses state-of-the-art Video Analytics and ML models to analyse the environment in real-time without GPS, lidar and radar. AutoDrive enables a hands-free Level 2 Autonomy experience at a push of a button.

Waypoint Autonomy

Using a high-performance 3D Engine capable of rendering massive point clouds and SLAM software, d.ASH Ops determines the real-time location of connected robots within millimetres. Just drop and add waypoints like markings on a map to automated patrol routes all thanks to d.ASH Ops’s seamless UI.

Advantages of dASH Ops

Robot Agnostic



Not dependent on any specific type or brand of robot

Industrial Sensor Integration



Heat Sensor | Sound Sensor | Laser Scanner

Multiple Robots & Missions on a Single Session



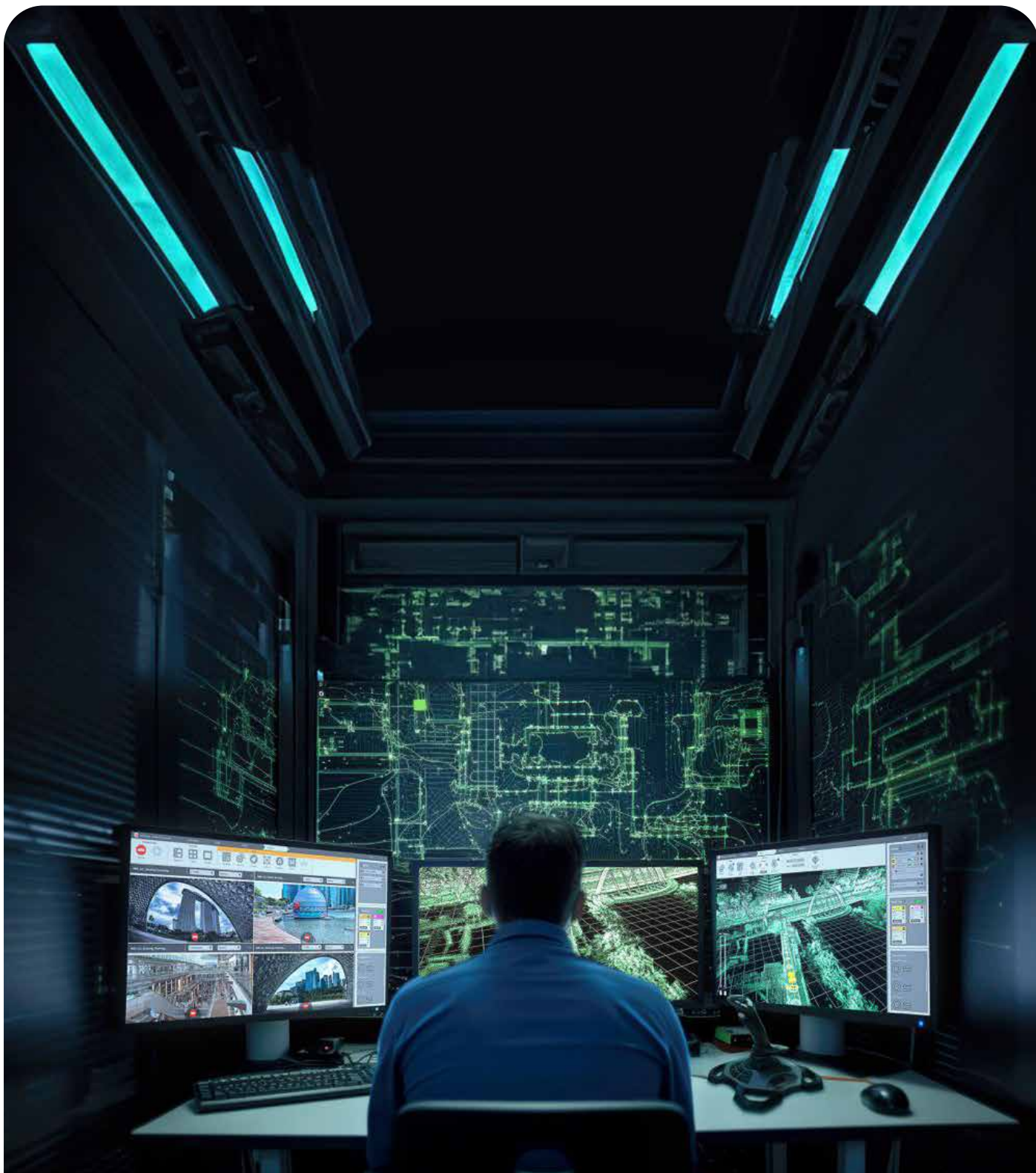
Monitor via Secured Streaming



Detect unrelated object from BIM to removal

Missions continues in network denied environment





Precision & Efficiency

By leveraging advanced algorithms and sensor fusion techniques, the software allows robots to accurately perceive their surroundings, identify obstacles, and plan optimal paths.



Adaptability & Flexibility

The software utilizes real-time data from sensors to create up-to-date maps and continuously update them as the environment changes. This adaptability enables robots to seamlessly navigate through dynamic and unpredictable surroundings such as crowded outdoor public spaces and construction site.



Enhanced Safety & Risk Mitigation

The software's intelligent decision-making capabilities enable robots to make informed choices to avoid obstacles and optimize their routes, mitigating potential risks and enhancing overall safety. This not only protects the robots themselves but also minimizes the risk of accidents or collisions with humans and other objects in the environment.



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