



# DATASPEED KINETIC KITS

Flexible kits to accelerate  
autonomous vehicle R&D

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## Dataspeed Kinetic Kits

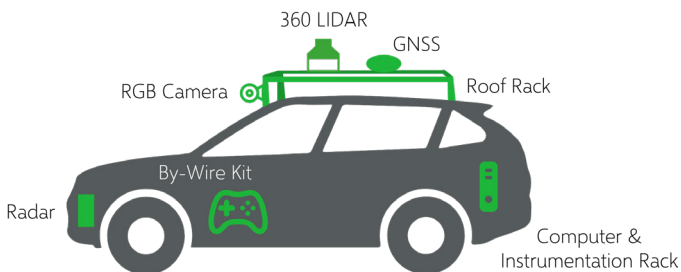
These innovative packages offer institutions and companies reliable and flexible platforms that feature industry-leading hardware and software for autonomous vehicle (AV) research and development. With the influx of driverless technology providers over recent years, it is often overwhelming for teams to navigate the seemingly endless options. Dataspeed Kinetic Kits were developed to streamline the AV hardware and software selection process to allow teams to focus their efforts on their own research and testing. Every component was hand-selected by the experienced Dataspeed engineering team based on extensive industry knowledge and experience. Included software functionality was developed in-house to allow for project adaptability and expandability.



### Kinetic Beginner Kit

#### For Essential Data & Control

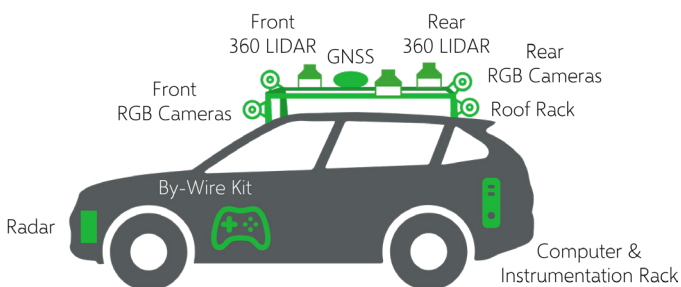
- Outfits production vehicles with the fundamental technologies to begin collecting data and developing essential autonomous functionality
- Ideal for universities and startup teams just beginning research and testing



### Kinetic Intermediate Kit

#### For Path Following & Object Avoidance

- Retrofits production vehicles with a sensor suite needed to successfully record and playback a manually driven route or to follow waypoint inputs
- Has the capability to detect and stop for objects
- Ideal for teams looking to test within predetermined areas or for performing technology demonstrations



### Kinetic Advanced Kit

#### For Advanced Autonomous Projects

- Designed to propel production vehicles into the forefront of autonomous innovation
- Empowers advanced users with cutting-edge technologies, elevating research and testing endeavors to unprecedented levels of sophistication and precision

Kinetic Kit Packages	Beginner	Starter	Intermediate
<b>Hardware</b>			
Dataspeed By-Wire System	x	x	x
Ouster OS1-64 Lidar (1 unit) / Advanced (3 units)		x	x
Long Range Radar (1 unit)		x	x
LUCID Vision Labs RGB Camera (1 unit) / Advanced (4 units)		x	x
OxTS INS (1 unit with dual antennas)			x
Neousys Computing Platform (1 unit)		x	x
Sensor Mounting & Storage Systems		x	x
Hardware Compatible for Use with Autoware		x	x
<b>Software</b>			
Turnkey Development Environment for ROS 2		x	x
Sensor Calibration Tool		x	x
Object Detection & Avoidance			x
NavRoute™ Path Following			x
<b>Engineering Services</b>			
Mechanical & Electrical Integration		x	x
Sensor Calibration		x	x
Initial Training & Support		x	x

## Optional Add-ons For Enhanced Performance

### Sensor Mounting Options

- Bumper Bars
- Custom Mounting Solutions

### Sensors

- Infrared Cameras
- Solid State Lidars
- Ultrasonic Sensors

### Remote Operation & Emergency Stop

- FORT Robotics Remote System

### Power

- Shore Power System
- Secondary Batteries
- DC Power Conversion System

### Engineering Services

- Custom Integrations
- Sensor Perception Coverage Mapping

# PARTNER WITH DATASPEED

Dataspeed specializes in innovative autonomous vehicle (AV) research and testing platforms. Whether your company is new to the industry or is looking to expand your current fleet, our experienced team of engineers and business professionals can guide your organization in developing an action plan to meet your specific needs. We're skilled in full vehicle integration including by-wire implementation, sensor and computer installation, data acquisition, and vehicle communications.

Our vehicle systems engineers have extensive experience creating custom hardware and software solutions. Contact us today to discuss how Dataspeed can accelerate your AV research and development.



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