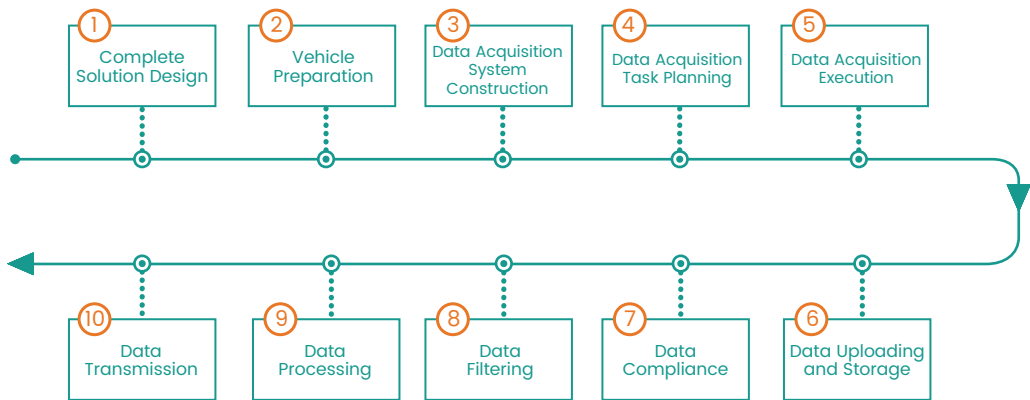


# LiangDao European Data Acquisition Solution

The first step of intelligent driving vehicles going abroad is to customize and develop intelligent driving functions which must be applicable to local driving scenarios. The local driving scenario data is the core engine for the iteration of intelligent driving system development.

LiangDao European data acquisition solution provides a complete data services for Chinese automobile enterprises going overseas, including vehicle preparation, data acquisition system construction, data acquisition execution, data compliance, data transmission, etc., which supports customers in exploring the global market.

## Complete European Data Acquisition Solution



## Core Advantages

More than 5 years of operation experience in the European market and deep local resources

- Rich experience in European data acquisition projects
- Over 50-person professional executive team, familiar with local regulations
- Chinese management and engineering team with no communication gaps

Excellent engineering modification Solution

- Exclusive workshop for modification engineering
- Professional team of modification with 10 years+ experience
- Over 200 modification projects experiences

Complete calibration and acquisition software

- Self-developed calibration software LD Calibrator, spatio-temporal synchronization of multiple sensors and easy to use
- Self-developed acquisition visualization software LD Logger, supports visualization of point cloud and camera images and scenarios tagging in real time.

Complete Data Compliance Solution

- Data decryption, desensitization, anonymization processing, etc. in accordance with the EU GDPR (General Data Protection Regulation)
- Multiple rounds of data auditing to ensure data security and high quality

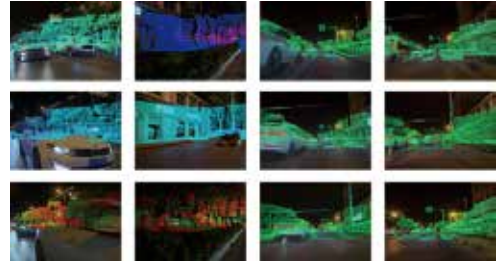


# Self-developed Intelligent Data Processing Toolchain

## Accurate Sensor Calibration Software LD Calibrator

LD Calibrator is a self-developed automated vehicle sensor calibration software, which supports the calibration of multiple sensors in a vehicle coordinate system.

- supporting one-click precise alignment of LiDAR and one-click calibration of camera internal and external parameters.
- Supporting the joint calibration of LiDAR and camera to make the multi-sensors data fusion more accurate and reliable.
- flexible deployment online, user-friendly interface and quick to get started.
- Supporting multiple data input and output formats to meet various application requirements.



## Data Acquisition Visualization Software LD Logger

LD Logger is a data acquisition visualization software deployed on the vehicle side, self-developed by LiangDao. It can support online timing and monitoring of sensor status, visualization of acquired data, scenarios tagging in real time, etc..

- Multi-sensors (LiDAR, camera, CAN) data acquisition at the same time.
- Real-time acquisition visualization of point cloud and camera images.
- Real-time monitoring of acquisition devices status and feedback to users.



## LD Data Management System

LD Data Management System (DMS) is a one-stop big data management platform on cloud, which connects multiple data function modules including data pre-processing, data automatic labeling, scenario mining, analysis and management, etc., and can realize resource management, data acquisition management, file management, pipeline management, scenario management, perception set management, objective database management, scenario labeling and other functions.

- One-stop big data management platform with rich functions.
- Efficient management of big data and full exploitation of data value.

