



OTSAW

Camello

Autonomous Last-Mile
Delivery Robot

www.otsaw.com





Introducing Camello

Camello is an autonomous mobile robot (AMR) from OTSAW that enables last-mile delivery service. Last mile delivery is the final process of the whole supply chain journey – the step which the package is delivered to the buyer’s doorstep.

At OTSAW, we look at reinventing last mile delivery using technology and robotics to increase customer satisfaction and market demand in the e-commerce industry.



Last-Mile
Delivery

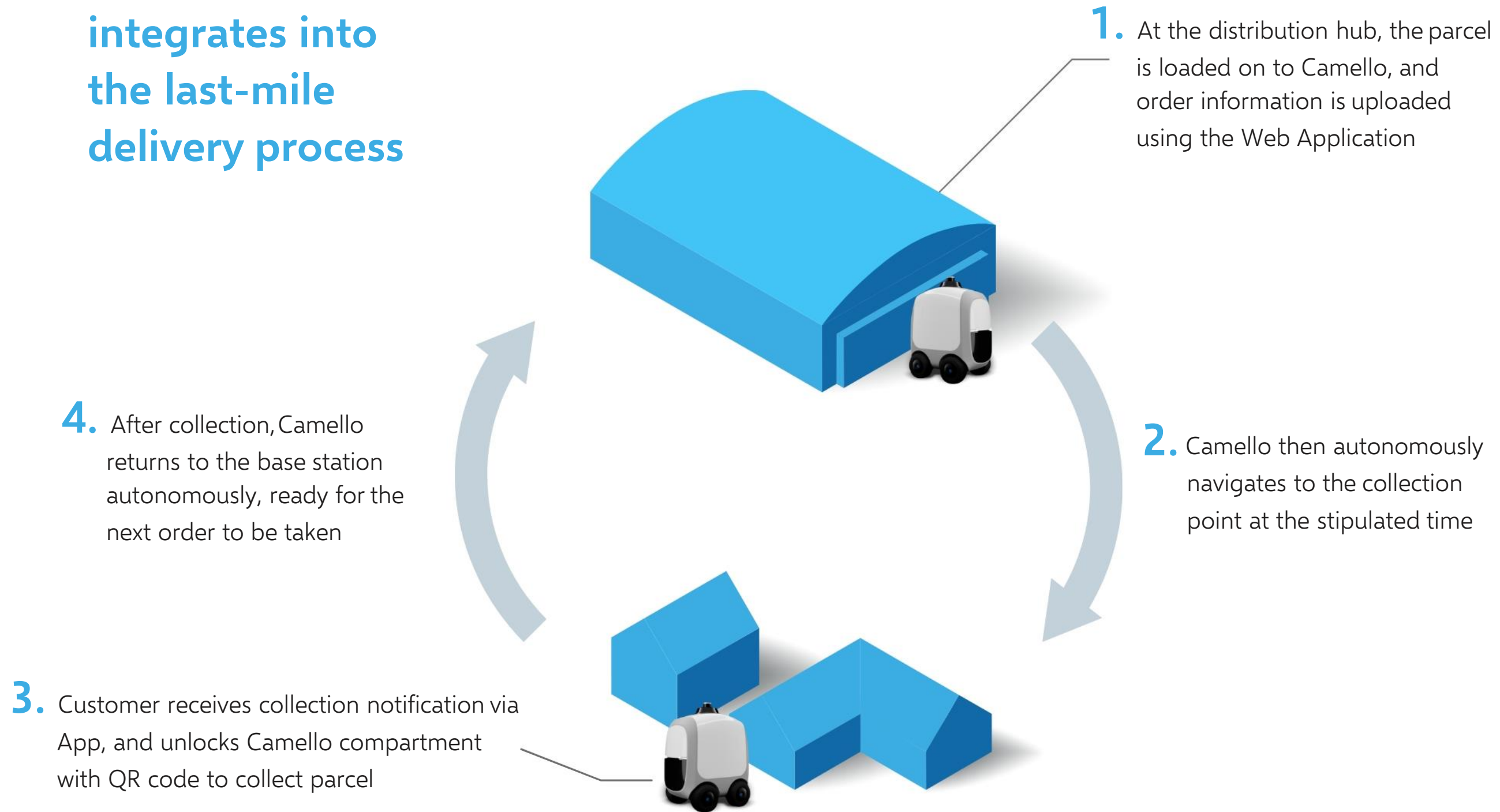


Improve Supply
Chain Logistics



Improve Customer
Experience

How Camello integrates into the last-mile delivery process



Camello Key Features



Navigational Capabilities

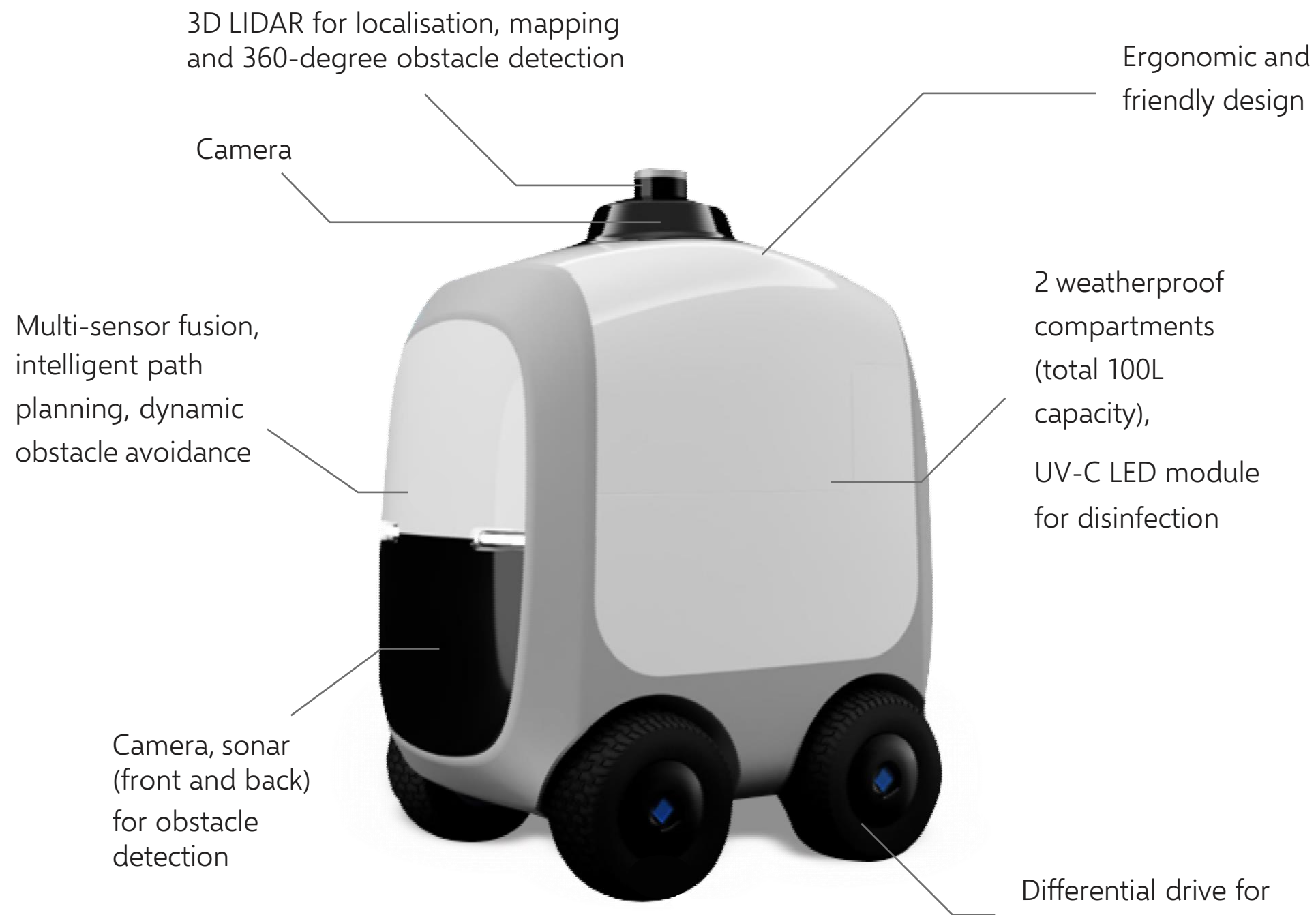
- Equipped with navigation capabilities with multi-sensor fusion, intelligent path planning and dynamic obstacle avoidance
- Sensors include 3D Lidar, camera and sonar sensor, which allows the AMR to visualize the surroundings by gathering data
- Global Positioning System (GPS) and Inertial Measurement Unit (IMU) allow Camello to continuously monitor position throughout its journey

Supply Chain Efficiency

- By reducing load factor, dwell times at loading/unloading points number of delivery requirements to individual customers, Camello aims to close the efficiency gap in the chain of last mile logistics
- With proper scheduling to charge the robot, the robot will tirelessly work round the clock
- Deliverymen can then operate these robots remotely in the dispatch hub, with his/her main role to load the parcel onto the goods

Safety Features

- Real-time obstacle detection with the 3D LIDAR sensors. With this feature, the AMR does intelligent path planning and will manoeuvre in a manner to avoid obstacles (humans/objects)
- Ultrasonic sensors as a secondary obstacle detection method to stop all motor functions in the event an obstacle is detected within stipulated range (typically 0.5 – 1m in front of the robot)
- Real-time camera video feed will also be processed for obstacle detection



Camello Specifications

Compartments

- Type 1: 1 compartment (659.3 x 514.5 x 300.5mm = 100L approx.)
- Type 2: 2 compartments
440.5 x 412.4 x 300.5mm = 54L approx.
514.5 x 241 x 300.5mm = 36L approx.

Navigation

- Maximum Load: 20kg
- Maximum Speed: 5km/hr
- Battery: Lithium battery 24V 60Ah
- Charge time: 3-6 hour full charge

Dimensions

- Length: 96cm
- Width: 70cm
- Height: 130 cm
- Weight: 105 kg



Robot as a Service (RaaS)

At OTSAW we offer our last-mile delivery services on a subscription base to help you reduce time to benefit and be more flexible. RaaS allows you to enjoy a state-of-the-art quality service and a seamless customer experience from setup to deployment and operations.

Your contract includes setup, training, maintenance, and software updates to make sure your OTSAW Camello is always at top performance at all times.



Lower
upfront cost



Full support &
maintenance



Free updates
& upgrades

Responsible Innovations



OTSAW



TRANSCAR

Automated Guided
Vehicle for Material
Transport

T-REX

Multi-use Portable
UV-C LED
Disinfection

QRX

Autonomous
UV-C LED
Disinfection

Camello

Autonomous
Last-Mile Delivery

QR3

Autonomous
Outdoor Security

Camello

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