

# Odigo

## Datasheet





# Odigo

## A Smarter Way to Engage, Inform & Navigate

Odigo is a state-of-the-art autonomous robot crafted to transform how people interact with retail and public environments. Specifically designed for high-footfall locations such as shopping malls, airports, exhibition centers, and hypermarkets

Odigo serves a dual purpose: intelligent navigation assistance and targeted digital advertising. At its core, Odigo uses AI-powered navigation to guide visitors effortlessly through complex spaces and sets itself apart by integrating Out-of-Home (OOH) advertising with navigation. As it moves through public spaces, Odigo displays dynamic, real-time, geo-contextual advertisements on its high-definition screens, tailored by location, time of day, and audience demographics.

## Key Features



### Autonomous AI Navigation

Dual SLAM technology for precise, centimetre-level indoor routing



### 10+ Hour Battery Life

Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery for uninterrupted all-day operation.



### Dynamic OOH Advertising

Geo-contextual, time-scheduled ads served on twin Full HD touchscreens.



### Autonomous Charging

Self-docks when battery is low; resumes operation automatically.



### Smart Obstacle Avoidance

Multi-sensor real-time detection for safe navigation in crowds.



### Real-Time Analytics

Track ad plays, audience engagement, and navigation performance.



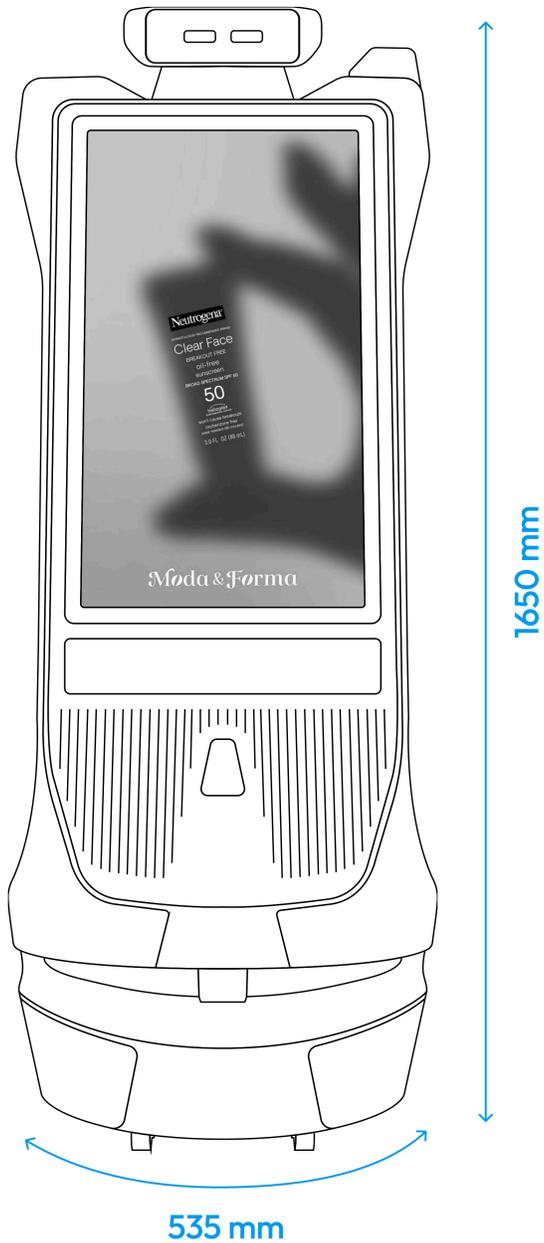
### Interactive Dual Touchscreens

32" capacitive displays for ads, store navigation, and visitor interaction.



### Centralized Dashboard

Monitor and manage all units, campaigns, and maps from one platform.



## Physical Specifications

Body	ABS Thermoplastic + Metal Reinforcement
Support Frame	Steel Reinforced Chassis
Suspension	Aluminum Base Frame
Chassis	3 mm / 4 mm Mild Steel
Weight	65 Kg
Color	Golden
Machine Dimensions	1650 mm (H) × 630 mm (L) × 535 mm (W)

## Power and Battery System

Odigo's advanced Battery Management System (BMS) ensures that it automatically returns to its charging station for recharging when battery levels drop below a configurable threshold (default: 20%). The charging station's intelligent power management activates only during the robot's recharging cycle, enhancing safety and reducing energy consumption.

Power Button	Yes — rear / side base
Intelligent Power Mgmt	Yes — auto-dock + BMS
Overcurrent Protection	Yes
Battery Type	Lithium Iron Phosphate (LiFePO4) 25.6 V / 25 Ah
Charging Time	6–8 Hours (4A adapter) / 4–5 Hours (7A adapter)
Power Adapter	Input: AC 220V, 50/60 Hz
Battery Life	10+ Hours (continuous operation)
Charging Mode	Automatic docking + Manual plug-in
Low Battery Threshold	Configurable (default 20%)



## Vision & Mobility System

### AI Navigation

Mapping & Navigation	Dual SLAM Technology (Laser + Visual)	Route Type	Multi-point, two-way (back and forth)
Gyro	IMU – Inertial Measurement Unit	Virtual Walls	Software-defined no-go zones on map
Max Speed	0.1 – 1.0 m/s (customizable)	Relocation	Manual or tag-based
Motor	Hub Motor Drive System		

### Lidar Sensors

Range	Up to 25 metres
Working Area	270 degrees scanning angle
Wavelength	905 nm
Type	2D Single-Line LiDAR

### Depth Camera

Type	Front-Facing Depth Camera
Application	Front environment sensing
Integration	Fused with LiDAR for comprehensive sensing

### Button & Controls

Emergency Stop	Red push switch near front panel – halts all functions immediately
Emergency Release	Rotate clockwise to release
Power Switch	Rear or side base – used for boot / shutdown
Operator Panel	PIN-protected, accessible via tap & hold on display



## Display Specifications

Odigo features two display screens to drive advertising and interaction. The top display provides ambient branding presence, while the main dual touchscreen is the primary advertising and navigation interface – allowing visitors to browse store directories, confirm navigation, and interact with campaigns.

### Top Display

Screen Size	7.9 inches
Resolution	400 × 1280 pixels
Touch	Display only (non-touch)
Application	Ambient branding

### Dual Touch Display (Main)

Screen Type	Capacitive Touch Screen
Screen Size	32 inches
Resolution	1080 × 1920 pixels (Full HD Portrait)
Touch Support	Yes – multi-touch capacitive
Speaker	10 W integrated speaker
Application	Primary advertising display + store navigation interface



## Other Technical Specifications

### AI Navigation System

OS	Linux
CPU / RAM	8 GB RAM + Processor
Navigation	Laser + Visual SLAM + Obstacle Avoidance
LiDAR	2D Single-Line LiDAR, 270°, 25 m range
Remote Access	Supports remote monitoring and OTA updates
Laser Angle	270° scanning angle, up to 25 metres

### Interactive System

OS	Android 11
Connectivity	Wi-Fi Dual-Band (2.4 GHz & 5 GHz), Bluetooth
Speaker	10 W
Charging Port	Rear-bottom panel, aligned with docking station
USB Port	For firmware updates / tech support (restricted access)

### Environmental Ratings

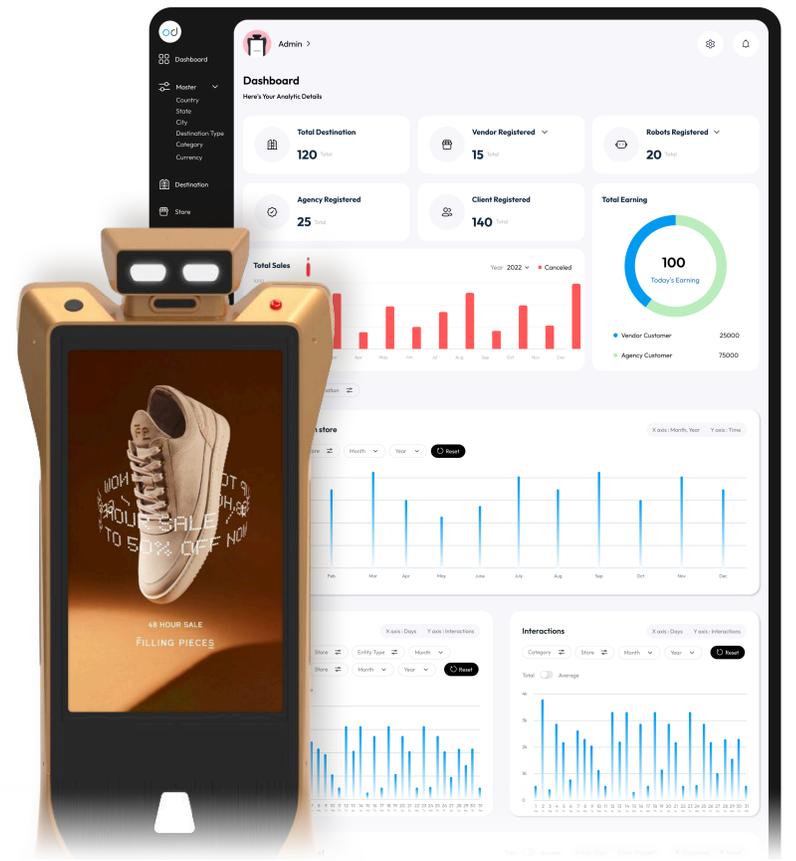
Operating Temperature	5°C to 40°C
Storage Temperature	-10°C to 45°C
Ambient Humidity	5% to 85% RH
Floor Requirement	Flat, solid indoor surface only
Terrain	Not suitable for carpet, slopes, or outdoor use

# The Odigo Control System

## Effortlessly Manage Odigo and Your Advertising Operations

The Odigo Control System is a comprehensive, cloud-connected platform designed to simplify the management of your advertising robot fleet. From a single centralized dashboard, operators can monitor live performance, manage ad content, configure navigation maps, track engagement analytics, and control multiple units — all in real time. Managing ad campaigns, store waypoints, and robot health becomes effortless, and you can access detailed data to make informed, revenue-driving decisions.

The Odigo Control System simplifies and optimizes the management of Odigo and your operations. It is a comprehensive platform that ensures efficient, data-driven advertising delivery — whether you operate a retail mall, airport, exhibition centre, or corporate campus.



## Platform Capabilities



### Centralized Dashboard

Real-time monitoring of robot status, battery level, ad playback queue, and navigation activity, across all deployed units from one interface.



### Dynamic Ad Management

Upload, schedule, and target advertisements by location, time of day, and audience demographics. Content updates push to the robot instantly.



### Store Navigation Mapping

Map stores and waypoints so Odigo guides visitors directly to their destination, increasing foot traffic and time-in-store.



### Operator Panel

Tap and hold the screen to access a PIN-secured operator panel: send robot to Home Point or Charging Point, cancel navigation, adjust speed/volume, and relocate.



### History & Engagement Log

View a detailed, color-coded timeline of ad plays, operator interventions, navigation events, and emergency stops — for today and past sessions.



### Virtual Wall Configuration

Draw software-defined no-go zones on the map to block off restricted or inaccessible areas without physical barriers.



### Sync & OTA Updates

Push new ads, map data, robot details, and cruise routes wirelessly from the server to the robot. No cables, no downtime.



### Partner & Wallet Module

Track vendor and agency wallet balances, monitor ad performance per partner, and trigger wallet deductions automatically or manually.



### Storage Management

View on-device storage usage per vendor and free up space by clearing unused ad assets remotely.



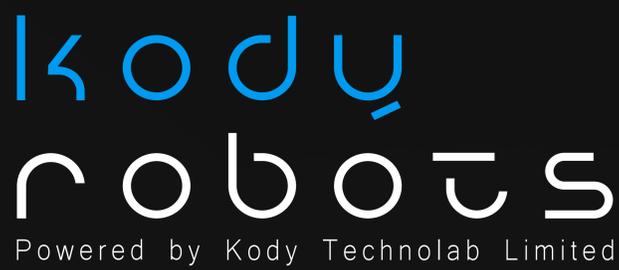
### Multi-Robot Management

Swipe across robots in the operator panel to manage and monitor multiple units deployed in the same venue simultaneously.



### Route Management

Create, edit, or delete cruise routes directly on the live map. Routes support two-way (back and forth) navigation across multiple waypoints.



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