Robox
Crafting powerful machines

TECHNICAL DATASHEET



AUTONOMOUS AI CONCIERGE

GuideBot

Autonomous AI Concierge & Interactive Signage

22" + 10"	≥ 7.5 h	360°	AR / EN
TOUCHSCREENS	CONTINUOUS RUNTIME	LIDAR SENSING	AI CONVERSATION

robox-industries.com

TECHNICAL DATASHEET

GuideBot

Autonomous AI Concierge & Interactive Signage

A roaming host, guide and marketing platform that greets visitors in Egyptian Arabic and English, with a 22-inch interactive display.



≥ 7.5 h	≈ 2.8 h	22" + 10"	AR / EN
CONTINUOUS RUNTIME	FULL CHARGE	TOUCHSCREENS	AI LANGUAGES

01

Product Overview

The Robox GuideBot is an autonomous service robot built to redefine the guest experience. It combines high-precision navigation, a 22-inch digital signage display and an AI model, serving as host, guide and marketing platform for modern facilities.

GuideBot roams pre-mapped floors continuously. When a visitor steps into its path, it pauses to engage — answering questions, playing games, taking photos — and resumes its route once the interaction ends.

02

Display & Navigation

Main signage screen

22-inch HD touchscreen for advertisements, promotions and media loops.

Status screen

10-inch upper display for expressions and status.

Continuous roaming

Safely traverses pre-mapped floors without stopping at fixed destination points.

Ambient interaction

Detects visitors in its path, pauses to engage, then resumes roaming.

03

Interaction & AI Capabilities

Multilingual AI engine

Native conversation in Egyptian Arabic (local dialect) and English.

Voice interaction

Noise-cancelling microphones for clear speech recognition in busy spaces, with dual 10 W speakers.

Knowledge base

Fully customisable FAQs, service menus and facility information.

Entertainment

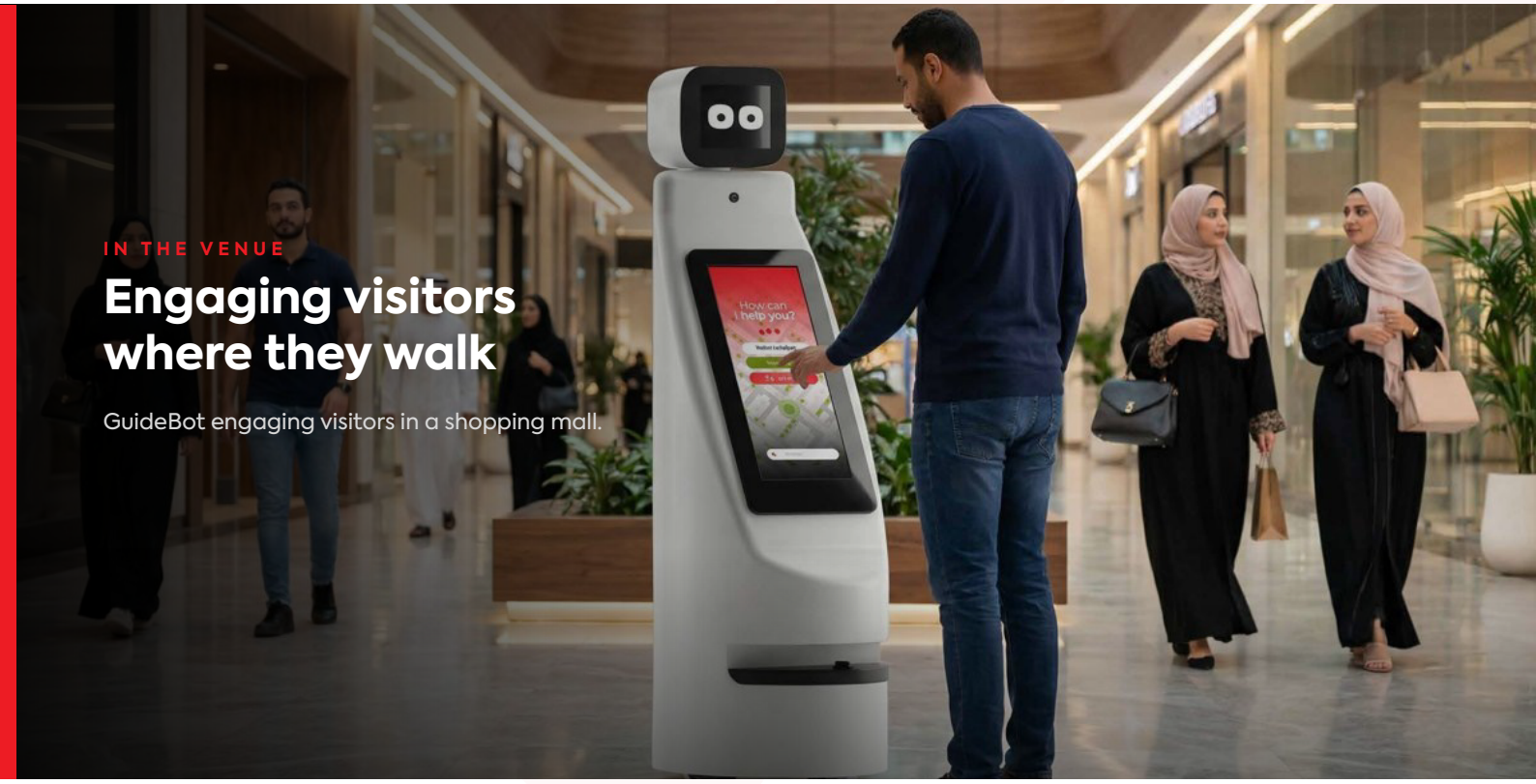
Built-in "Spin & Win" games and photo-booth mode.

Lead generation

Interactive forms capture name, phone and email with the visitor's consent, in line with Egypt's Personal Data Protection Law No. 151 of 2020.

Instant photo delivery

The on-board camera takes high-resolution photos and emails them to the visitor immediately.



IN THE VENUE

Engaging visitors where they walk

GuideBot engaging visitors in a shopping mall.

04

Competitive Advantages

Local cultural tuning

Our AI is trained on local linguistic nuances, so visitors can speak Egyptian Arabic the way they actually talk.

Safety first

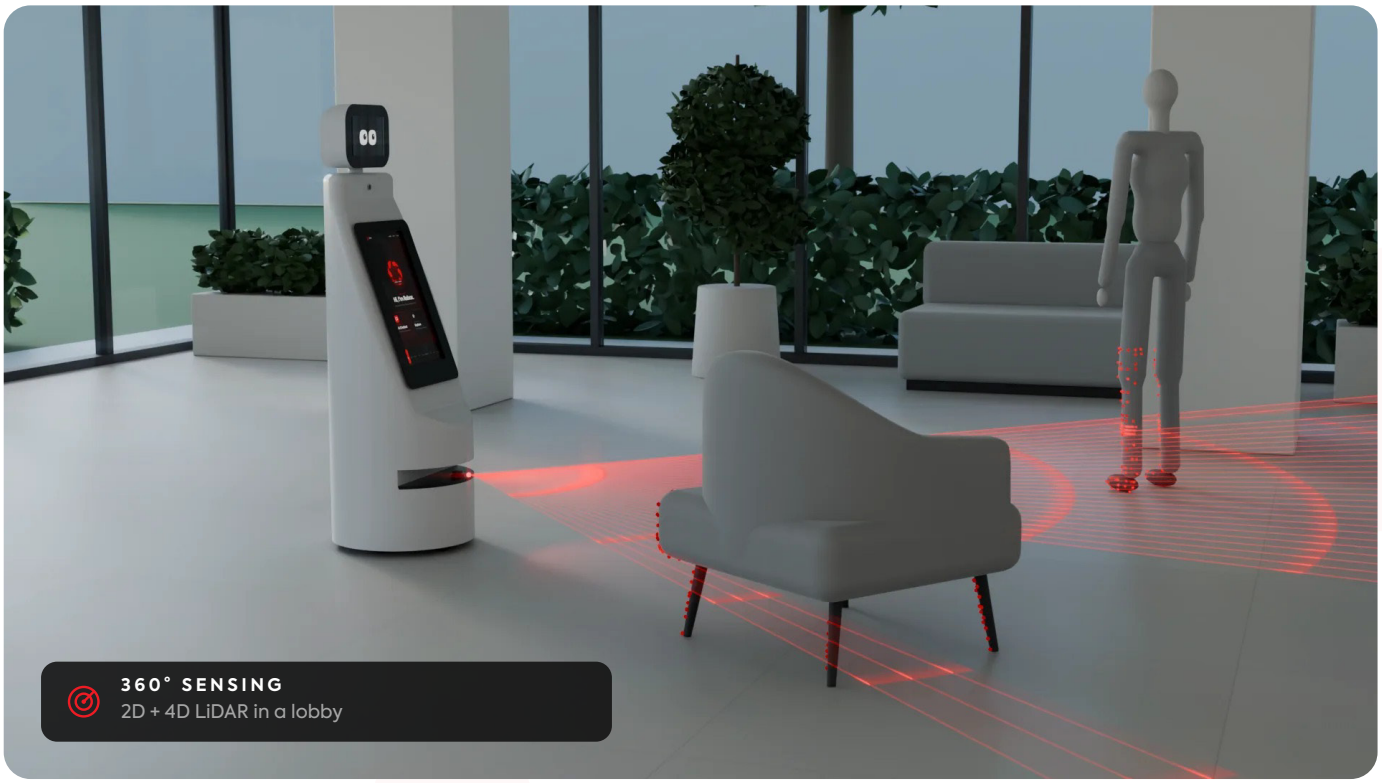
360° sensing from the 2D and 4D LiDAR prevents collisions, even in dense foot traffic.

Primary sectors

Retail mall plazas, exhibition floors, museums and corporate reception areas seeking high-tech brand awareness and interactive lead generation.

Local engineering & support

Designed, built and supported in Egypt by Robox, with local spare parts and service.



Sensing visualisation shown for illustration.

GUEST JOURNEY

01 **Roam**
Patrols pre-mapped floors as a moving screen.

> 02 **Detect**
Spots a visitor stepping into its path.

> 03 **Engage**
Answers, plays, takes photos, captures leads.

> 04 **Resume**
Returns to its route once the chat ends.

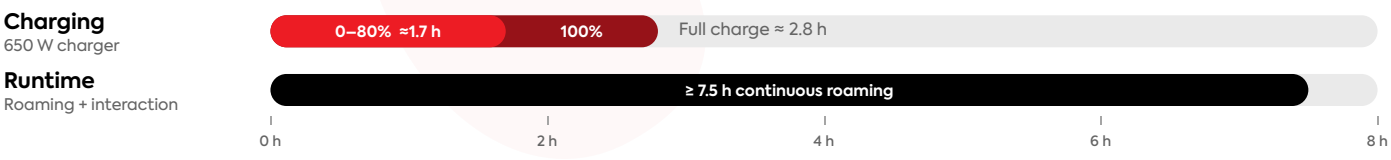
05

Technical Specifications

GENERAL	Dimensions (Ø × H)	Ø500 × 1,500 mm
	Weight	≈83 kg (high stability)
	Surface compatibility	Marble, tile, low-pile carpet, cement and wood
DISPLAYS & AUDIO	Main screen	22-inch HD touchscreen
	Upper screen	10-inch status display
	Audio	Noise-cancelling microphones, dual 10 W speakers
	Camera	High-resolution photo camera
	AI commands	Voice interaction and on-screen typing
MOBILITY	Maximum speed	1.0 m/s (software-adjustable)
	Turning	Zero-radius turn in place, Ø500 mm swept circle
	Minimum aisle width	800 mm
	Maximum incline	5°
	Navigation mode	Continuous roaming of pre-mapped floors
SENSING & SAFETY	Navigation LiDAR	2D LiDAR — 180° scan, up to 40 m range
	3D perception	4D LiDAR — 360° × 96° field of view. Up to 30 m range (90% reflectivity), 5 cm minimum blind zone. Detects low-lying and overhanging obstacles outside a 2D scan plane
POWER	Battery	LiFePO4 12S, 38.4 V / 32 Ah (1.23 kWh)
	Runtime	≥ 7.5 h guaranteed, continuous roaming and interaction
	Charger	650 W, 220 V AC 50 Hz input
	Charge time	0–80% in ≈1.7 h, full in ≈2.8 h
CONNECTIVITY & ENVIRONMENT	Connectivity	Wi-Fi, Bluetooth, LTE (optional)
	Operating conditions	Indoor, 5–40 °C

Runtime and charge-time figures are calculated from component power budgets on a new pack at 25 °C. Guaranteed runtime assumes continuous driving at 1.0 m/s with displays at full brightness; typical-duty figures assume intermittent operation.

POWER AT A GLANCE



06

Dimensions



FRONT VIEW



SIDE VIEW

Ø500 mm
DIAMETER

1,500 mm
HEIGHT

≈83 kg
WEIGHT

800 mm
MIN. AISLE WIDTH

Turning
Zero-radius turn in place, Ø500 mm swept circle.

Speed & incline
Maximum speed 1.0 m/s (software-adjustable), maximum incline 5°.

07

Applications & Deployment



Retail & Malls

Wayfinding to shops, mobile advertising and "Spin & Win" promotions.



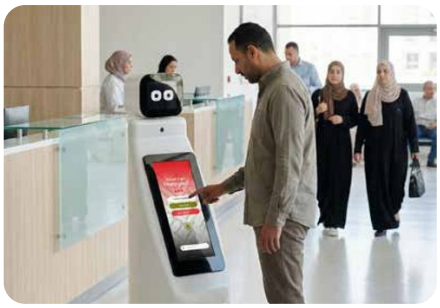
Hospitality & Hotels

Receptionist support and tourist information.



Corporate Offices

Visitor registration and employee engagement.



Healthcare

Directing patients to clinics and easing front-desk workload.



Museums & Galleries

Docent mode with audio-visual tours of selected exhibits.



Events & Expos

A high-tech attraction for lead generation and brand awareness.

08 CONTACT

Bring GuideBot to your venue

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