



**ROBOMIRACLE**

# **ROBOMIRACLE ROBOTS**

## **ROBOMIRACLE'S INTELLIGENT ROBOTS**

**YOUR FUTURE, POWERED BY ROBOTS**





ROBOMIRACLE

# Nexus A1

The Future of Humanoid Intelligence

Advanced AI Interaction

Multi-Functional  
Touch Display

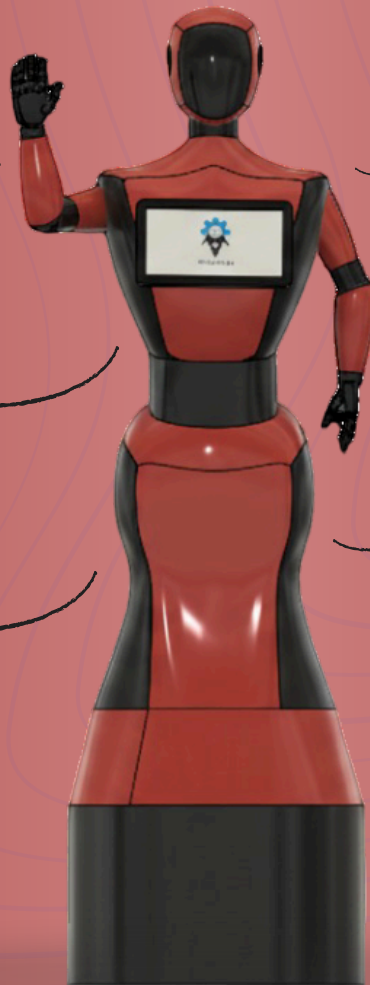
Task Execution & Custom  
Module Support

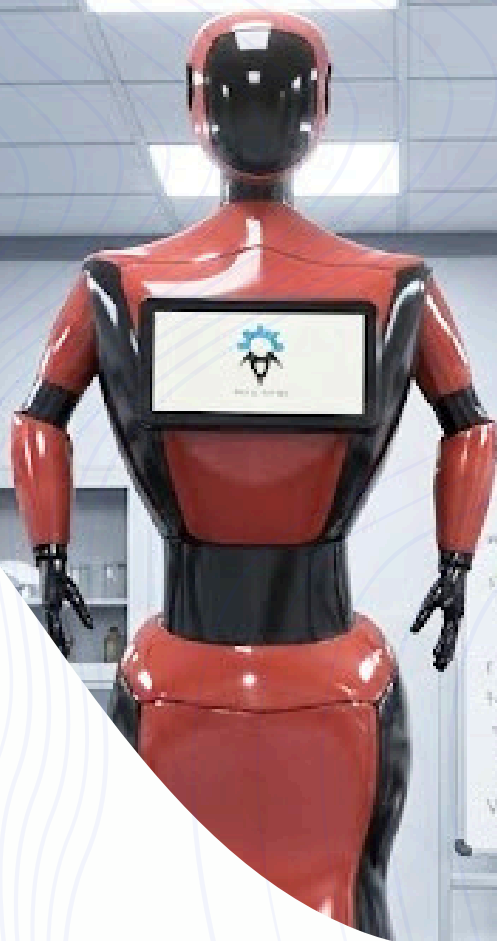
Industrial-Grade  
Performance

Human-Like Motion  
System

Intelligent User  
Engagement

Autonomous Navigation  
& Cruise Modes





# Nexus A1

## 1. OVERVIEW

A next-generation humanoid designed for real-world human interaction, autonomous navigation, and intelligent assistance. With lifelike head and hand movements, Nexus brings a warm, futuristic presence to every environment—schools, malls, hospitals, expos, events, and corporate spaces.

## 2. KEY FEATURES

### Human-Like Motion System

- 8+ DOF in head, arms, and hands for natural gestures
- Smooth head turn, nodding, and eye-tracking animations
- Handshaking capability with safe torque-controlled movements
- Designed to mimic real human body language

### Autonomous Navigation & Cruise Modes

- Real-time SLAM for mapping and navigation
- Smart obstacle avoidance with depth sensors
- Multiple Cruise Modes:
  - Auto Tour Mode — leads guests around predefined points
  - Follow-Me Mode — follows a person intelligently
  - Patrol Mode — continuous autonomous roaming
  - Returns to charging dock automatically (optional)

### Advanced AI Interaction

- Voice-based conversation, Q&A, and greetings
- Personalized welcome messages for guests
- Gesture learning for dynamic expressions
- Built-in voice guidance for tours and announcements
- Can act as a reception guide, expo host, or customer assistant



### **Intelligent User Engagement**

- Facial attention system: robot turns its head toward the speaker
- Adaptive tone, speed, and emotional expression
- Can deliver advertisements, promotions, school info, brand messages
- Interactive quizzes, fun activities, and student engagement modules

### **Multi-Functional Touch Display**

- Front-mounted screen for:
- Product demos
- Advertisements
- Videos, menus, brochures
- Interactive forms / feedback collection
- Remote update for content

### **Task Execution & Custom Module Support**

- Customizable payload (brochure distribution, tray, etc.)
- Event hosting, guest greeting, crowd interaction
- Queuing system / information desk support
- Optional tray module for item delivery





### 3. HARDWARE SPECS

#### Core Hardware

- Weight: 50 kg
- Height: 5.2ft
- AI camera: 5 MP, 1–5 m recognition distance

#### Android System

- OS: Android 11
- Multi-language support for flexible user choice
- Display: 12" IPS
- Ports: Micro-USB debug, USB 2.0, RJ45 network

#### ROS Navigation

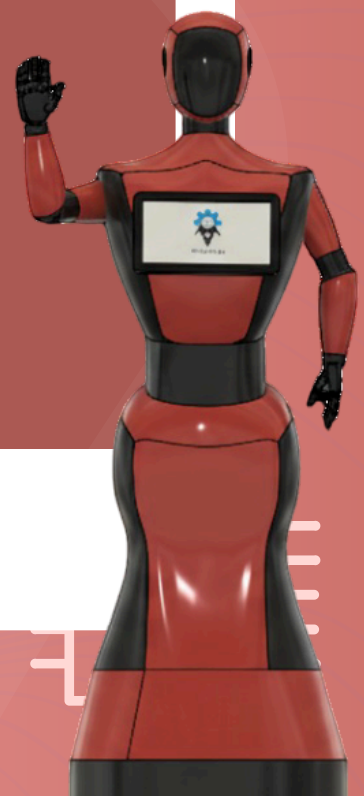
- OS: Linux
- Gyroscope: Single-axis yaw measurement
- Infrared: Auto-docking with charger within 1 m

#### Power and Charging

- Battery: 37 V, 10 Ah lithium
- Charging pile: 42 V DC
- Charging mode: Automatic docking, DC direct charge

#### Smart Features

- Remote video and navigation monitoring
- Speaker: 20w mono





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INNOVATORS  
ACROSS INDUSTRIES**

## CLIENTS & COLLABORATIONS



**READY TO BUILD THE FUTURE TOGETHER?**



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