

PAL
ROBOTICS



The perfect mix
of Service Robotics
and Artificial Intelligence
in one single platform



THE NEW GENERATION OF AI POWERED ROBOTS

ARI is here to help you embody and handle your AI and IoT Based applications. We have designed a reliable and easy to use platform thanks to our 15 years of experience in robotics R&D. Equipped with the needed sensitivity and expressiveness, ARI is the perfect mix of Service Robotics and Artificial Intelligence in one single platform.

BUILT FOR AI

ARI enables you to easily integrate your AI algorithms thanks to its unrivalled processing power, letting you fully immerse yourself in the limitless applications of AI and IoT. The provided ROS API and REST API enables you to easily develop, simulate and deploy applications on the robot.

ENGAGE AND INTERACT

Expressive, helpful and entertaining, ARI helps you design the social interactions you are aiming for. Thanks to its touchscreen, gaze control and versatile gestures, you can accelerate, adapt and control the human-robot interaction side. Its curvy humanoid design as well as its LCD eyes and voice can be adapted to your business needs to promote user engagement and grow awareness.

- ✓ Healthcare
- ✓ Events
- ✓ Retail
- ✓ Finance
- ✓ Education
- ✓ Public Institutions
- ✓ Automotive
- ✓ Hospitality



Adapt to your operation

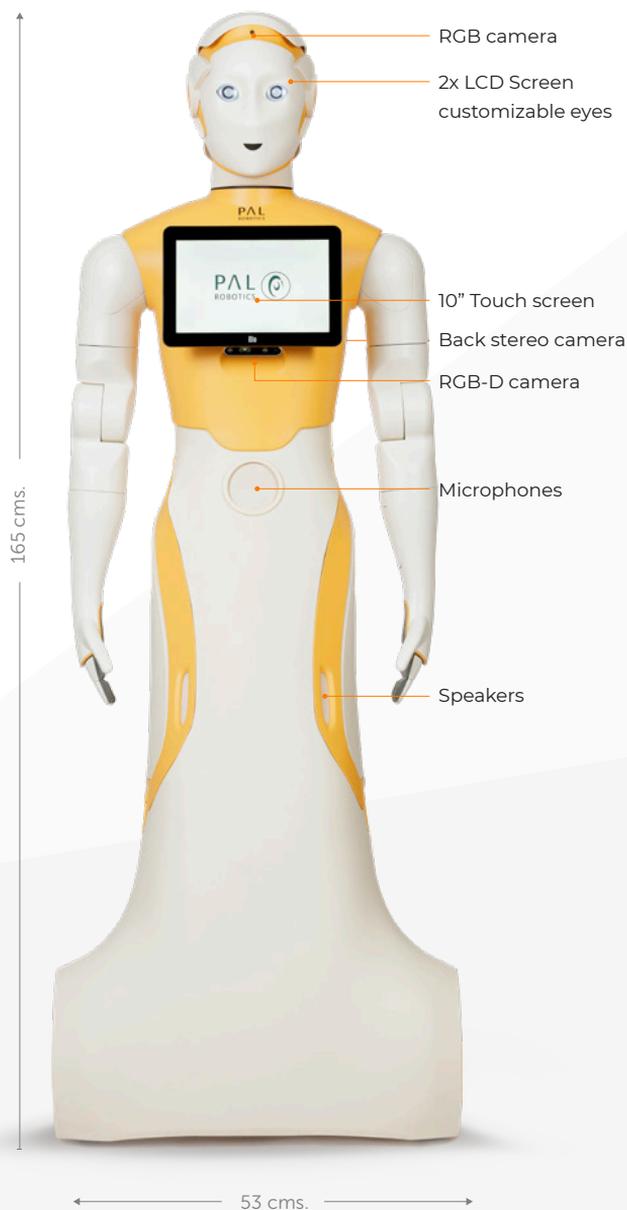
ARI is designed to perform front-desk activities and to engage your customers and employees. It's able to entertain and interact with your customers along with providing valuable data insight about your operations and clients.



LED Manager

ARI's LED Manager allows you to easily tailor its appearance with a variety of colors, brightnesses and effects to represent your brand.

AUTONOMOUS, INTERACTIVE AND PERSONALIZABLE



CAPABILITIES

Agile motions

Cartesian control
Graphical interface to create motions
12 DoF ARI



Expressive Interactions

Animated eyes
22 off-the-shelf expressions
Rich gaze control



Speech & understanding

Speech-to-text and Text-to-speech
Digital microphone array
Chatbot capability



Semantic knowledge

Symbolic knowledge base
OWL/RDF compliant
Fast first-order-logic reasoner



Social perception

Face detection
Face identification
Full 2D/3D body tracking
Automatic engagement detection



100% ROS

Open platform
Logging and monitoring



SPECS

Arm payload	0.5 Kg
Max Speed	1.5 m/s
Battery life	Up to 12h
Computing power	up to Intel i9, up to 32GB RAM up to 1TB SSD
Communications	WiFi, Bluetooth, USB, Ethernet
GPU	Nvidia Xavier NX, CUDA compatible (<i>optional</i>) Nvidia Orin, CUDA compatible (<i>optional</i>)
DoF	Up to 14 DoF



Web-Based Interface

An intuitive and user friendly web-based interface allows you to easily alter the ARI's touchscreen content, speech, and even create your own gestures with your own motion editor.

Simulate, test & deploy

Run free simulations in a virtual environment for faster iteration of different applications and experimentation before deploying them on your robot.
wiki.ros.org/Robots/ARI/

Looking for a humanoid service robot?

ARI is here to assist your team and customers. Proactive, autonomous, able to provide dynamic information and to spark curiosity. ARI perceives its environment and generates comprehensive customer insight. It is multi-functional and easy to deploy with customizable appearance and behaviour. Thanks to its advanced processing power, ARI can handle and embody the limitless applications of AI and IoT and help you design the services of the future.

CONTACT US TODAY!

business@pal-robotics.com



PAL ROBOTICS

**Leading robotics
advancements since 2004**

Since 2004, PAL Robotics has been leading the service robotics advancements to provide the best value to its customers and increase people's quality of life. PAL Robotics has solutions that are used worldwide for industry, logistics, service and retail.