



## 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.

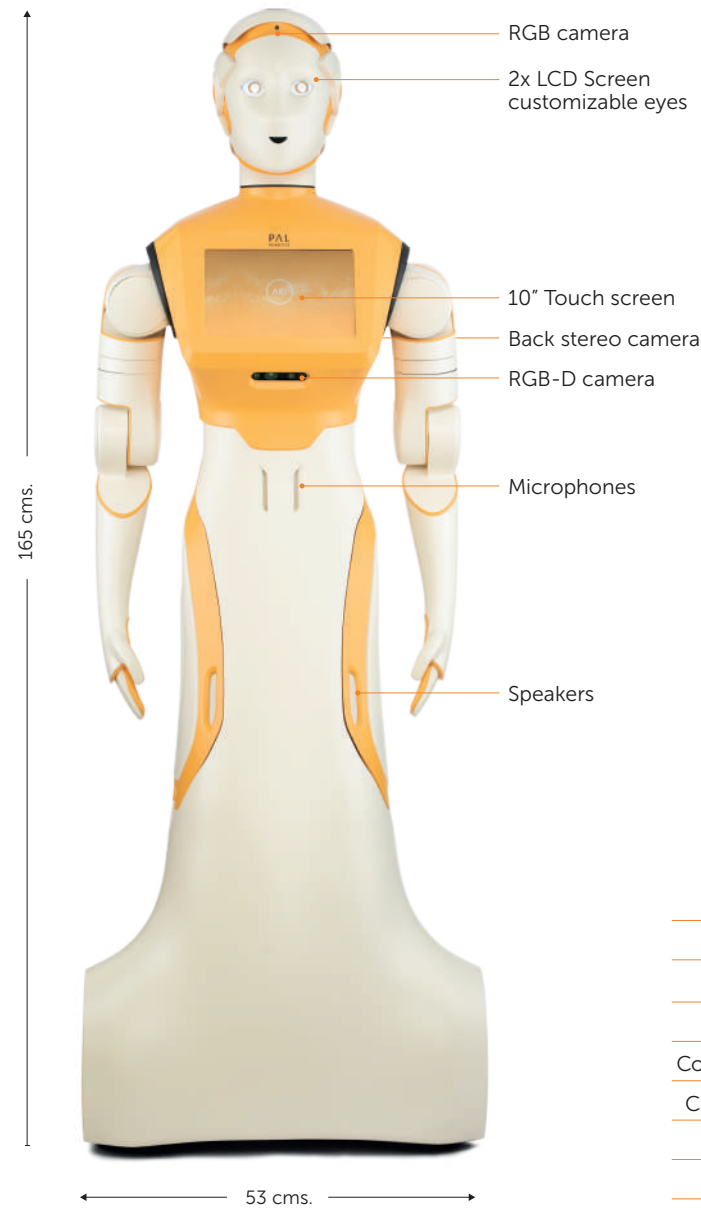
### ENGAGE AND INTERACT

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



## AUTONOMOUS, INTERACTIVE AND PERSONALIZABLE



### CAPABILITIES

#### Learning

- Deep Learning
- Imitation Learning
- Motion planning

#### Vision

- 3D Perception
- Face & object recognition

#### Social

- Human-Robot Interaction
- Emotion Recognition
- Face recognition

#### Smart Cities and IoT

- Biometric data
- Environment data
- Data Analysis
- 5G

#### Recommendation system

- Personalization
- Cognitive robotics

#### 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	Intel i5/i7, up to 32GB RAM
Communication	WiFi, Bluetooth, USB, Ethernet
AI	NVIDIA® embedded GPU
DoF	Up to 14 DoF

## ADAPT TO YOUR OPERATIONS

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.



### 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/](http://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!**

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ROBOTICS 



### 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.

[www.pal-robotics.com](http://www.pal-robotics.com)

Designed, Engineered and Manufactured by PAL Robotics in Barcelona