

# TIAGo Head

Get Yours



EXPLORE

# Embodied AI and Social Robotics

For research, education and healthcare

## Hardware

Touchscreen	Tactile 10" touchscreen
LEDs	RGB, 4 programmable zones
Camera	RGB-D
Microphone	4-mic array
Speakers	2x 4W loudspeakers
Degrees-Of-Freedom	2x in neck

## Integration & interfaces

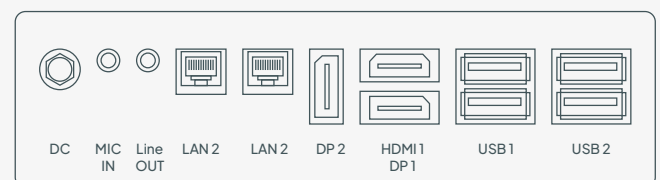
PsychoPy	•
MATLAB Psychophysics Toolbox	•
Programming APIs	Python, C++
Web based interface	•

## Tech Specs

Height	45 cm
Width	32 cm
Depth	25.5 cm
Weight	5.75 kg
Power	230V/110V

## Connectivity

Wi-Fi	802.11ax Wi-Fi 6
Bluetooth	5.2
USB ports	4
Ethernet ports	2
HDMI ports	1
DisplayPort (DP)	2
Audio Line OUT	1
Mic IN	1



## Packages

Starts at

	Basic	Standard	AI Package
	<b>7.950,00 €*</b>	<b>12.950,00 €*</b>	<b>19.900,00 €*</b>
	For experimental research	For robotics research and teaching	For AI research

## Computer

CPU Intel i7 / 16 GB RAM / 500 GB SSD  
AI/GPU Nvidia Jetson Orin

	●	●	●
	On demand	On demand	Included

## Software

Visual programming (Available end of 2025)  
Web based interface  
REST API  
ROS 2 API  
Full access to robot OS (ssh)  
Visualization  
Documentation

	●	●	●
	●	●	●
	●	●	●
		●	●
		●	●
		RViz, rqt	RViz, rqt
	●	●	●

## Human-Robot Interaction

Text-to-Speech (TTS)  
Automatic Speech Recognition (ASR)  
Chatbot  
Large Language Model (LLM)  
Customizable robot face

	English + 1 language	20+ languages	20+ languages
	English + 1 language	10+ languages	10+ languages
	RASA, English + 1 language	RASA, 5 languages	RASA, 5 languages
			Based on ollama (llama:3.2 3B, gemma 7B, mistral 7B)
		●	●

## Social Perception

3D face recognition  
3D skeleton tracking  
Emotion recognition  
Gesture recognition  
ROS4HRI compatibility  
Social Surroundings Visualization

	●	●	●
	●	●	●
	●	●	●
	●	●	●
		●	●
		custom RViz & rqt plugins	custom RViz & rqt plugins

## Accessories & Upgrades

Transport case	On demand	On demand	Included
Custom paint color	On demand	On demand	On demand

\*Prices are exclusive of shipping, taxes and duties which will be calculated on a personalized offer. PAL Robotics reserves the right to modify or cancel this prices at any time without notice. Prices are inclusive of a 10% educational discount.