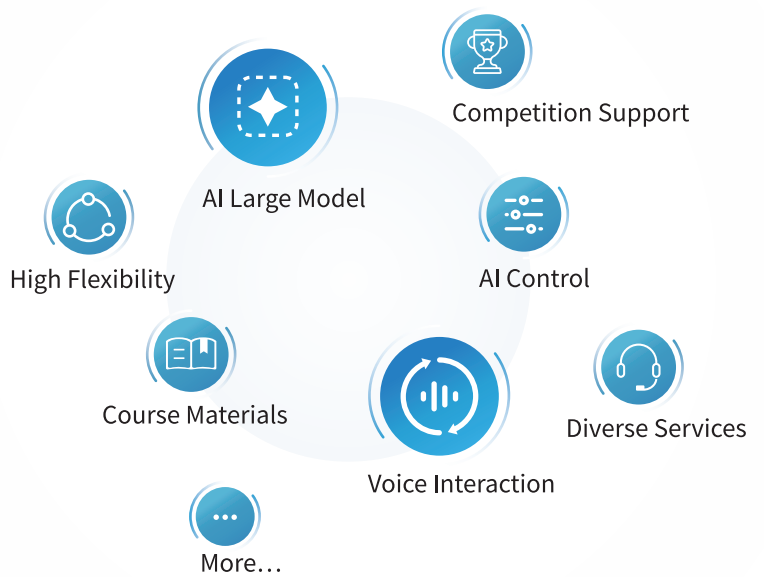


# AELOS<sup>LM</sup>

The first K-12 multimodal AI educational humanoid robot

## Focused on K-12 artificial intelligence education

Aelos LM integrates large language models and large-scale vision model technologies, supports multi-sensor collaboration, and can be applied to scenarios such as intelligent interaction, task execution, experimental training, and knowledge learning. It helps students progress from theoretical understanding to hands-on practice, master core AI skills, and connect with future industry demands.



## Large Language Models, Human-Computer Interaction, and Intelligent Voice Control

By combining dual cameras with large-scale vision model algorithms, it enables object recognition, scene analysis, and autonomous decision-making, providing high-precision visual support for interdisciplinary projects



# Dual Computing Systems, Empowering Future Education

Equipped with an STM32 and Raspberry Pi CM5 dual computing system, it supports complex algorithm execution and multithreaded task processing, meeting the high-performance computing requirements for scenario development and project-based practice.

## Robot behaviour development

racing, dancing, boxing, kicking a ball...



## Scenario simulation development

industrial assembly lines, store reception, smart security...

## Robot motion development

fast walking, side rolls, single-leg standing, push-ups...



Size	346mm x 224mm x 118mm
Weight	1.73KG
Material	Aluminum alloy + PC/ABS plastic
Control Method	Supports 2.4G group control
Gait algorithm	Supports two gait algorithms – slow walking at 3cm/s and fast walking at 10cm/s
Processor	High-performance STM32 core, 128M memory card with overload protection / MPU6050 altitude detection
Development Platform	Raspberry Pi CM 5
Battery	7.4v, 3200mAh capacity
Sensors	Bluetooth microphone, built-in geomagnetic sensor, head and chest cameras, and two magnetic sensor interfaces on the front chest
Control	Supports gamepad control, 2.4G connectivity, and the gamepad transmission frequency can be modified
Programming Platform	Compatible with PC-based Aelose du (formac & PC), Linux
PC Programming Method	Aelos edu includes built-in block-based programming and pure Python code programming
Development Language	Lua/Python3
Degrees of Freedom	A total of 17
Steering Gear	17 high-torque servo motors with motion range of 180°, accuracy 1°, speed 461°/s, and noise level of 40-50dB
Supporting Courses	80 class hours (40 hours of intermediate courses + 40 hours of advanced courses)

## LAMA INTERNATIONAL INTELLIGENT TECHNOLOGY SDN. BHD.

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