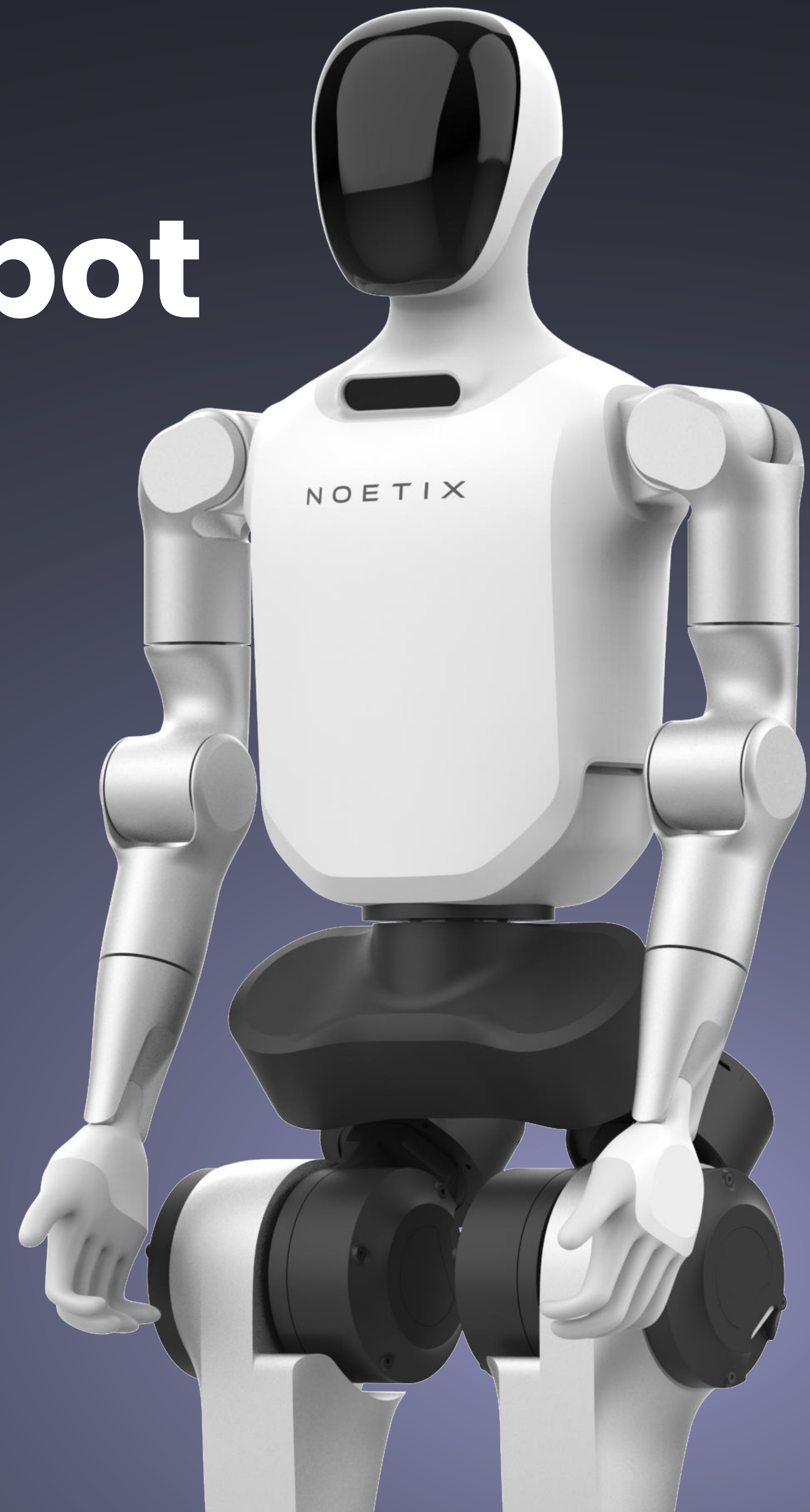


Embodied Intelligence Robot — E1

Created by NOETIX

The NOETIX-E series features self-developed motion control algorithms, adapts to complex terrains, supports dexterous hands and other accessories, and enables secondary development across diverse scenarios.



Features

The E-series bipedal humanoid robot features high-performance force-controlled joints with high torque density and bandwidth, delivering a peak torque of 150 N·m. With a clean, compact design, it stands 1.36 m tall and weighs around 40 kg. Equipped with quick-swap, high-discharge lithium-ion batteries, it offers over 4 hours of runtime. Powered by NOETIX self-developed reinforcement learning motion control algorithm, it achieves stable locomotion across various terrains and supports humanoid running, with a top speed exceeding 3.5 m/s.

Product Advantages

Built for Embodied Intelligence

Supports dexterous manipulation and intelligent interaction; capable of dynamic motions including running, dancing, and jumping.

Secondary Development Interface

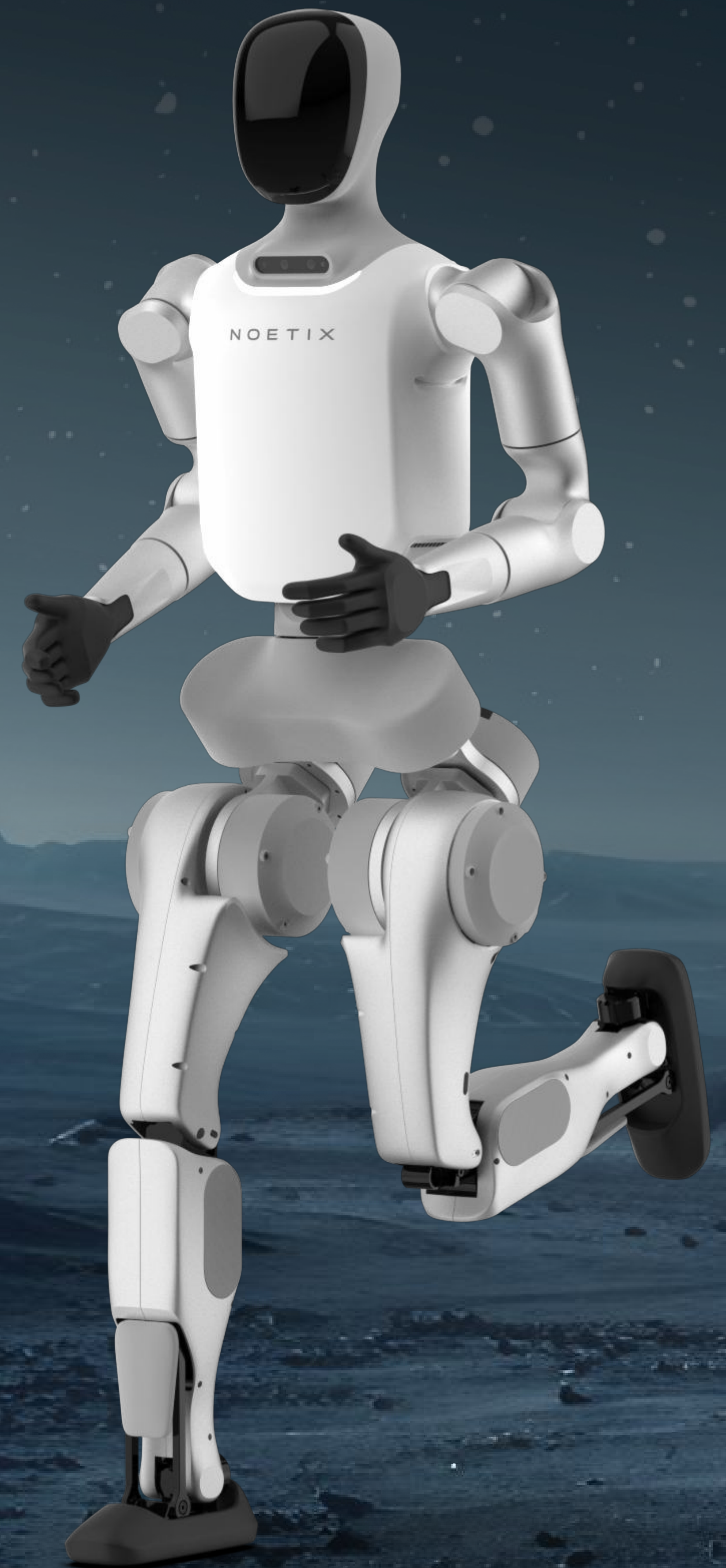
The EI EDU version offers an open SDK, supporting speed/motion commands and custom joint-level algorithm control.

Excellent product stability

Built with an aluminum alloy frame and high-strength plastic shell, it remains stable after dozens of drop tests, reaching industry-leading standards.

Excellent price/performance ratio

Self-developed body with highly localized components; hardware cost and quality are strictly controlled for high performance at low cost.



Key Parameters

Universal·Flexible·Freedom

23~30 DoF **1~2** h **1.2** m/s

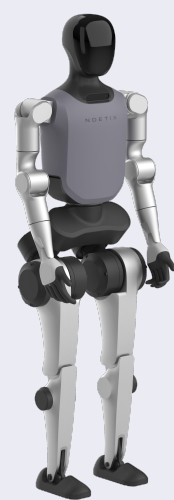
Total DoF

Battery
Capacity

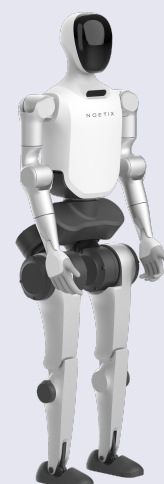
Standard
Speed

Multiple CMF Options Available

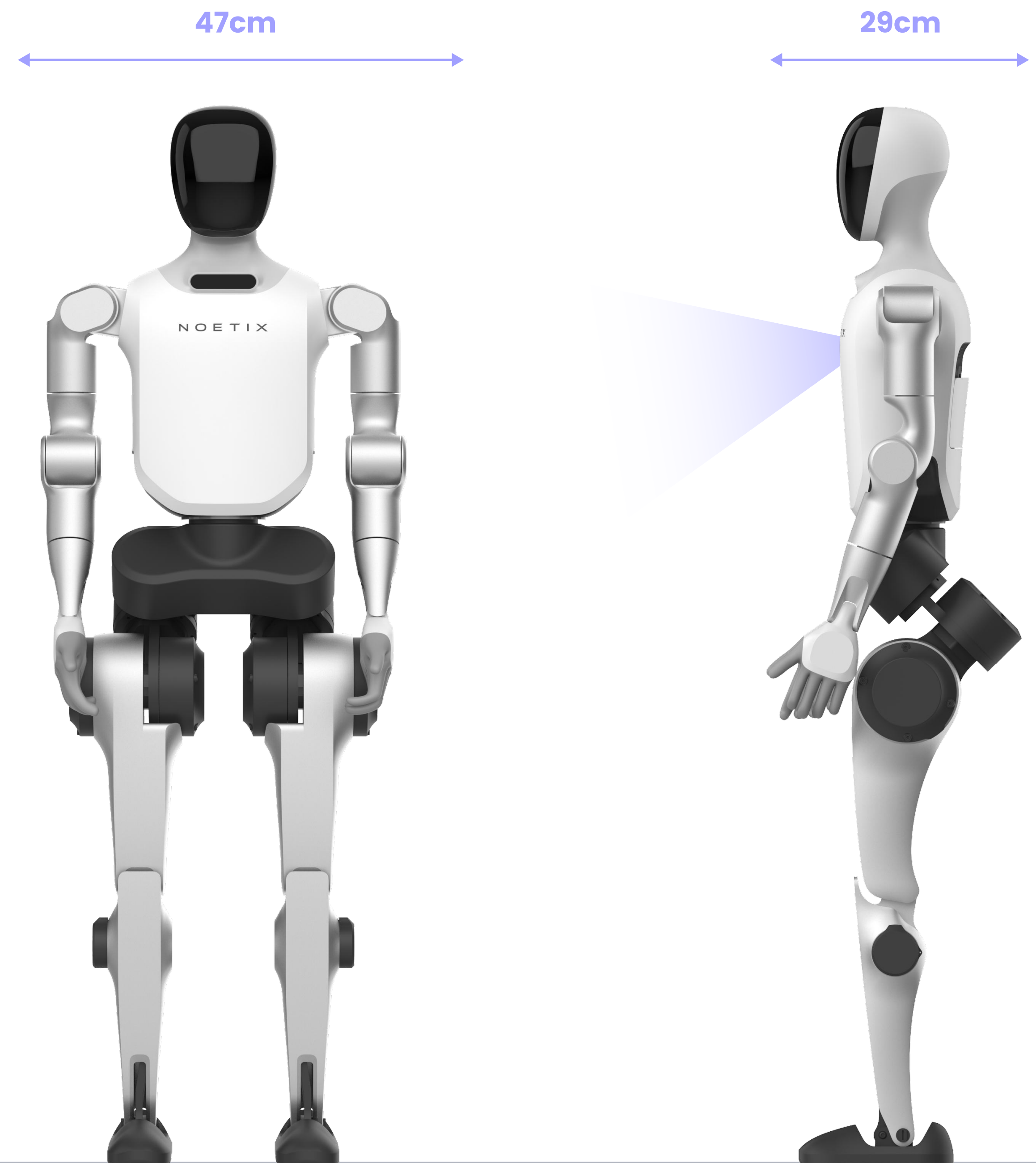
Aluminum Alloy Frame with Plastic Casing



Dark sky gray



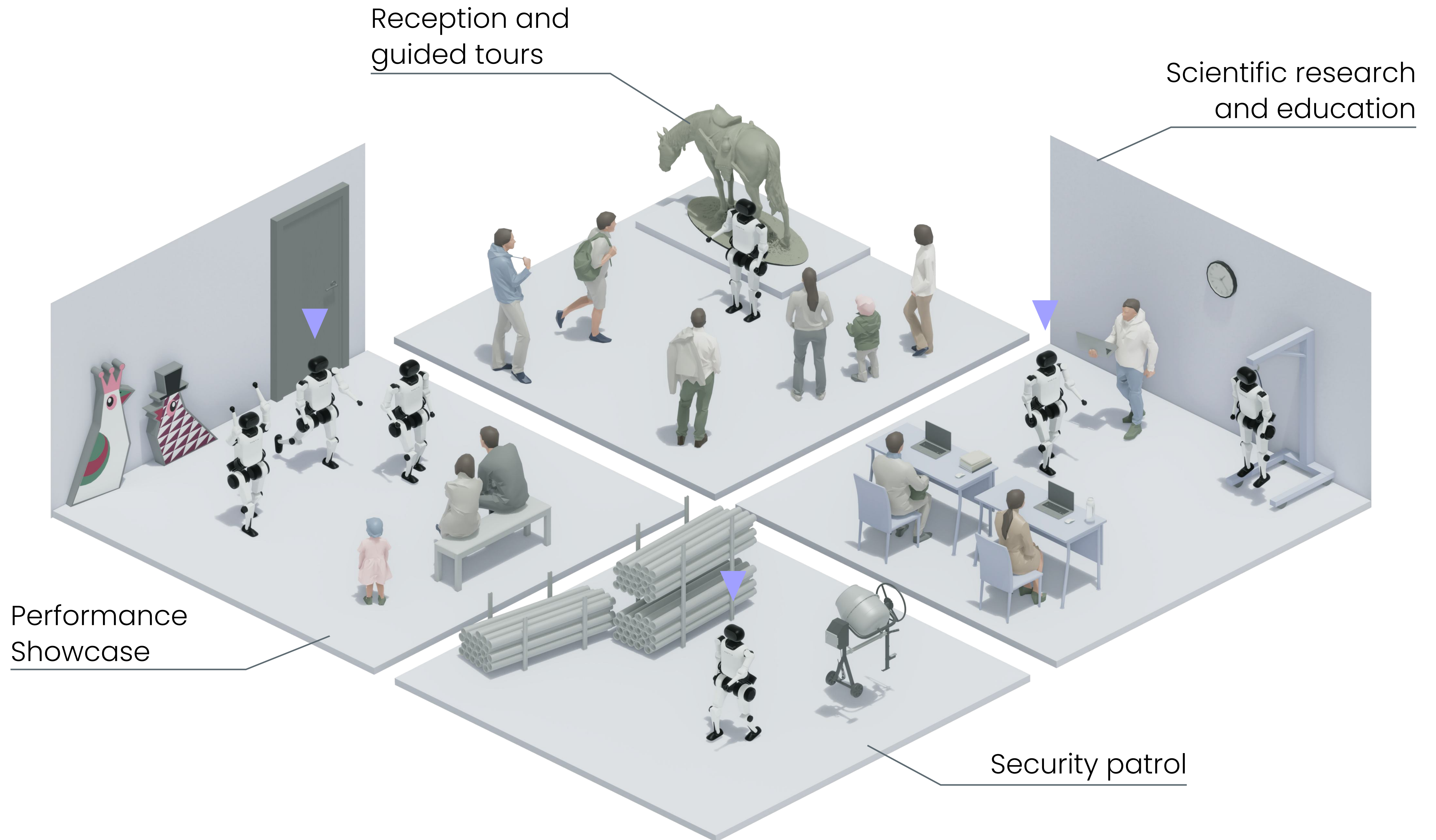
Moonlight white

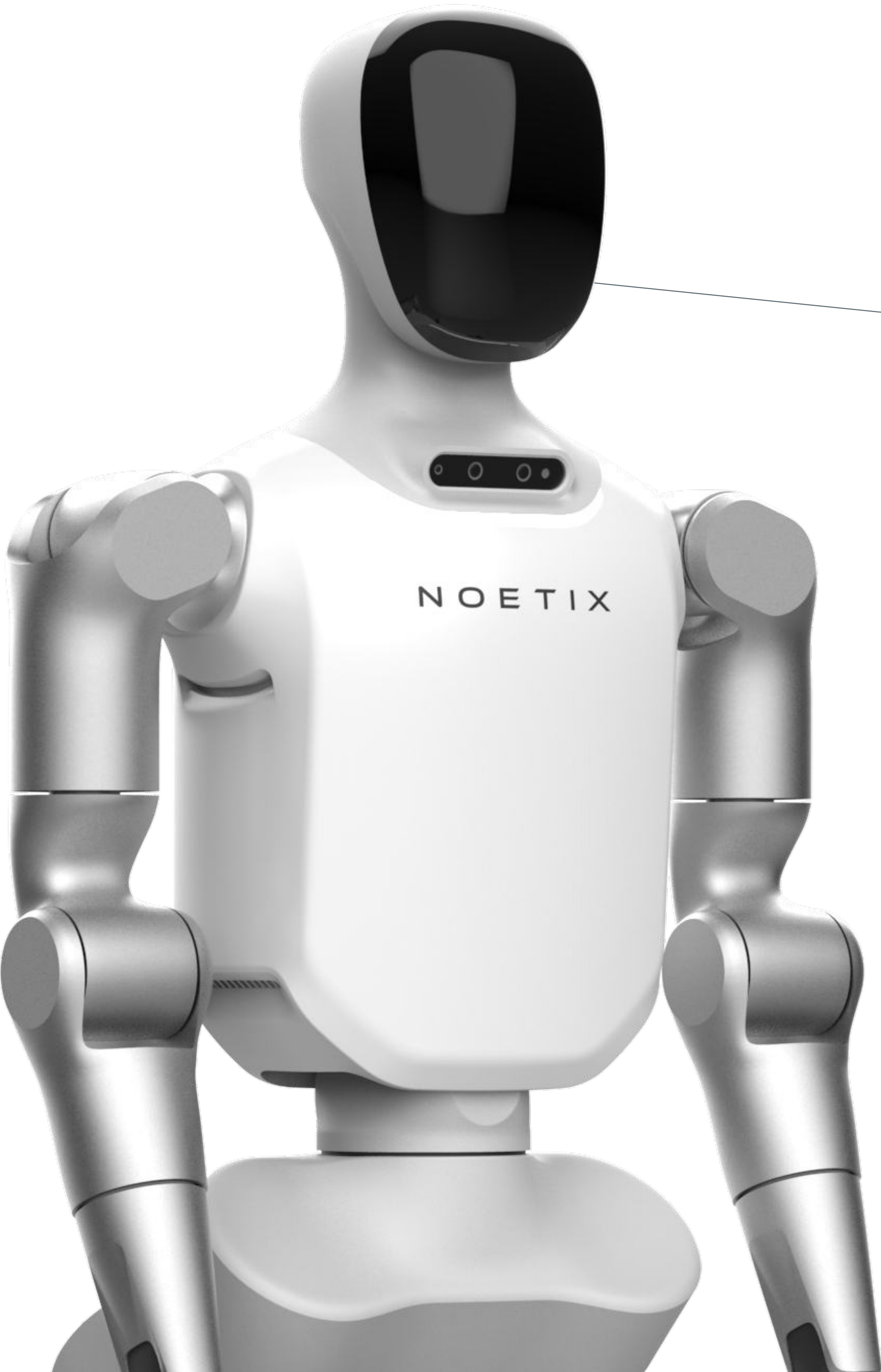


Product Size: 136cm*47cm*29cm

Weight about: 36kg

Application Scenario





Product Performance and Configuration

23~28 DoF for the whole body

Equipped with voice module, supporting the development of large language model, multi-modal large model, etc., which can realize rich voice interaction and human-computer interaction function development scenarios.

Function	Parameter
Maximum Joint Torque	150 N·m
Single Leg	6 DoF
Single Arm	5 DoF/7 DoF (optional)
Basic computing power	6 TOPS (EDU Edition 6+67 TOPS)
Perception Sensors	Depth Camera、IMU (EDU version 6+67 TOPS)
CPU	RK3588s with 4-core Cortex-A76 + 4-core Cortex-A55 at up to 2.4GHz
GPU	The EDU version is equipped with NVIDIA Jetson Orin Nano Super
Smart Battery	48v 9Ah
Secondary Development	Open SDK interface for EDU version

