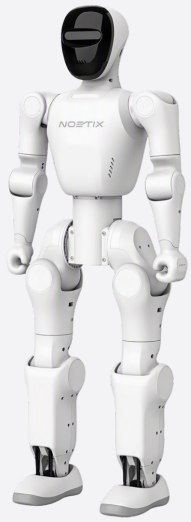
NOETIX BUMI

PRO & EDU PRO | HUMANOID EDUCATIONAL ROBOT

Compact humanoid platform for robotics education, AI research, development and human-robot interaction.

980 mm height | 17 kg | 21 degrees of freedom



Product overview

Noetix Bumi Pro und Bumi EDU Pro sind kompakte zweibeinige humanoide Roboter für Lehre, Forschung und Entwicklung. Die Plattform kombiniert 21 degrees of freedom mit Depth camera, RGB-Kamera, IMU und Sprachinteraktion. Grafische Programming und SDK-Zugriff unterstützen den Einstieg sowie eigene Bewegungs- und Interaktionsanwendungen. Die EDU-Pro-Variante ergänzt ein NVIDIA Jetson Orin Nano Super Modul für lokale KI-, Computer-Vision- und Embodied-AI-Projekte.

Key specifications

Height	980 mm
Weight	17 kg
Degrees of freedom	21 DoF
Max. speed	0,5 m/s
Max. joint torque	70 Nm

Max. payload	6 kg
Operating time	approx. 2 h
Battery type	Lithium-ion
Cameras	Depth camera, RGB
Wireless	WLAN, Bluetooth

Typical applications

EDUCATION
Robotics classes, STEM programs and higher education

AI RESEARCH
Computer vision, reinforcement learning and embodied AI

DEVELOPMENT
SDK projects, motion sequences and human-robot interaction

DEMONSTRATION
Showcases, hackathons, robotics clubs and makerspaces

Specifications & variants

Base configuration

HUMANOID PLATFORM

Zweibeiniger Roboter mit 21 degrees of freedomn, kraftgeregelten Gelenkmodulen und bis zu 0,5 m/s Bewegungsgeschwindigkeit.

EDU PRO: EDGE-KI & DEVELOPMENT

NVIDIA Jetson Orin Nano Super for local AI models, computer vision and advanced secondary development.

Mechanics, sensing and software

Height	980 mm
Weight	17 kg
Degrees of freedom	21 DoF
Speed	0,5 m/s
Max. torque	70 Nm
Operating time	approx. 2 h

Sensors	Depth/RGB camera, IMU
Voice system	Integrated
Programming	Graphical, Python
Developer access	SDK, HighController API
Mobile connectivity	App, Wi-Fi, Bluetooth
AI hardware, EDU Pro	Jetson Orin Nano Super

Variant comparison

Function / feature	Pro	EDU Pro
Manual teaching / low-dynamic dance	+	+
High-dynamic & special edition dance	X	+
Communication	Wi-Fi + Bluetooth	4G/5G*, Wi-Fi + Bluetooth
Grafische Programming / Sprachmodul	+	+
Upper-body secondary development	X	+
OTA, image transmission and mobile app	+	+
High-compute module	X	Jetson Orin Nano Super
Autonomous standing up and lying down	+	+

Integration and operation

- **CONTROL** — Grafische Programming sowie SDK-basierte Entwicklung; Python-Unterstützung ist beschrieben.
- **PERCEPTION** — Depth camera with structured-light technology, RGB camera and IMU for visual and orientation-based applications.
- **COMMUNICATION** — Wi-Fi, Bluetooth, mobile app and voice interaction; industrial fieldbuses are not documented.
- **OPERATION** — For clear, level and dry indoor surfaces; not intended for stairs or production automation.

NOTE

Technical data according to manufacturer specifications and provided product information. Subject to change.

* 4G/5G gemäß bereitgestelltem Variant comparison.