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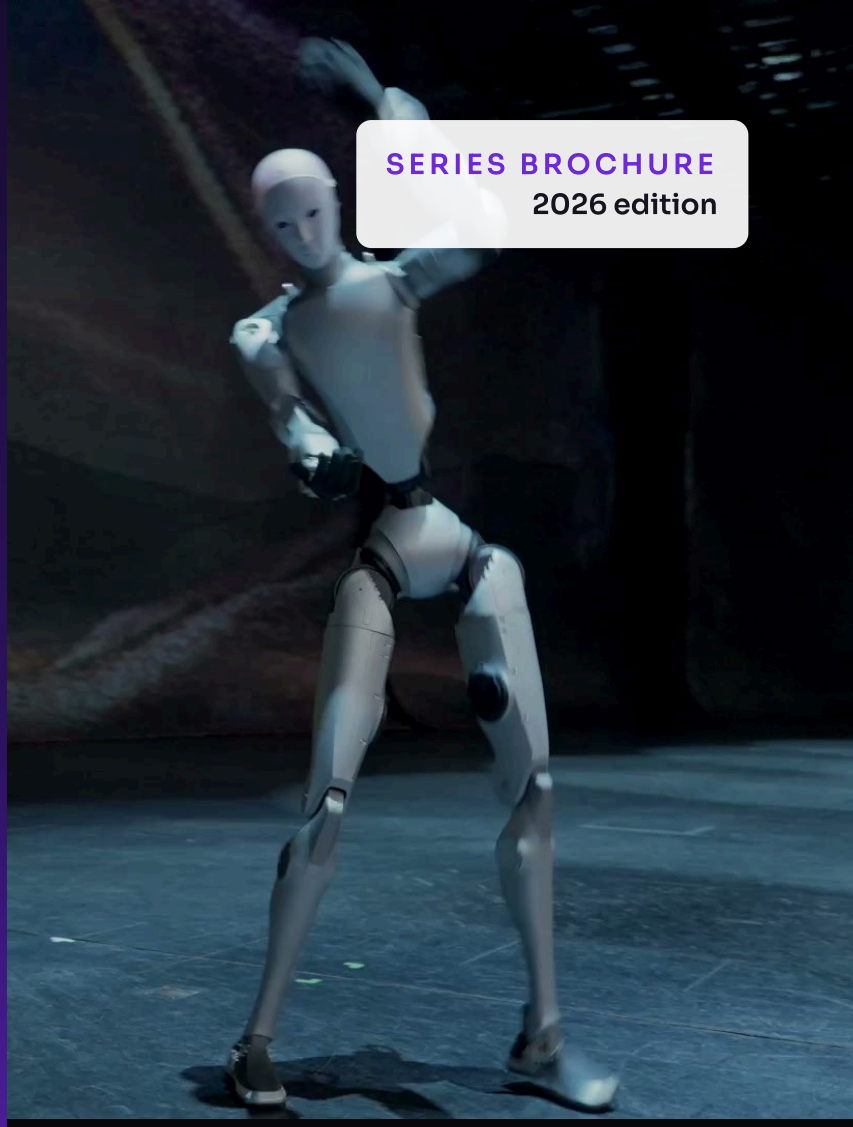


SERIES BROCHURE
2026 edition

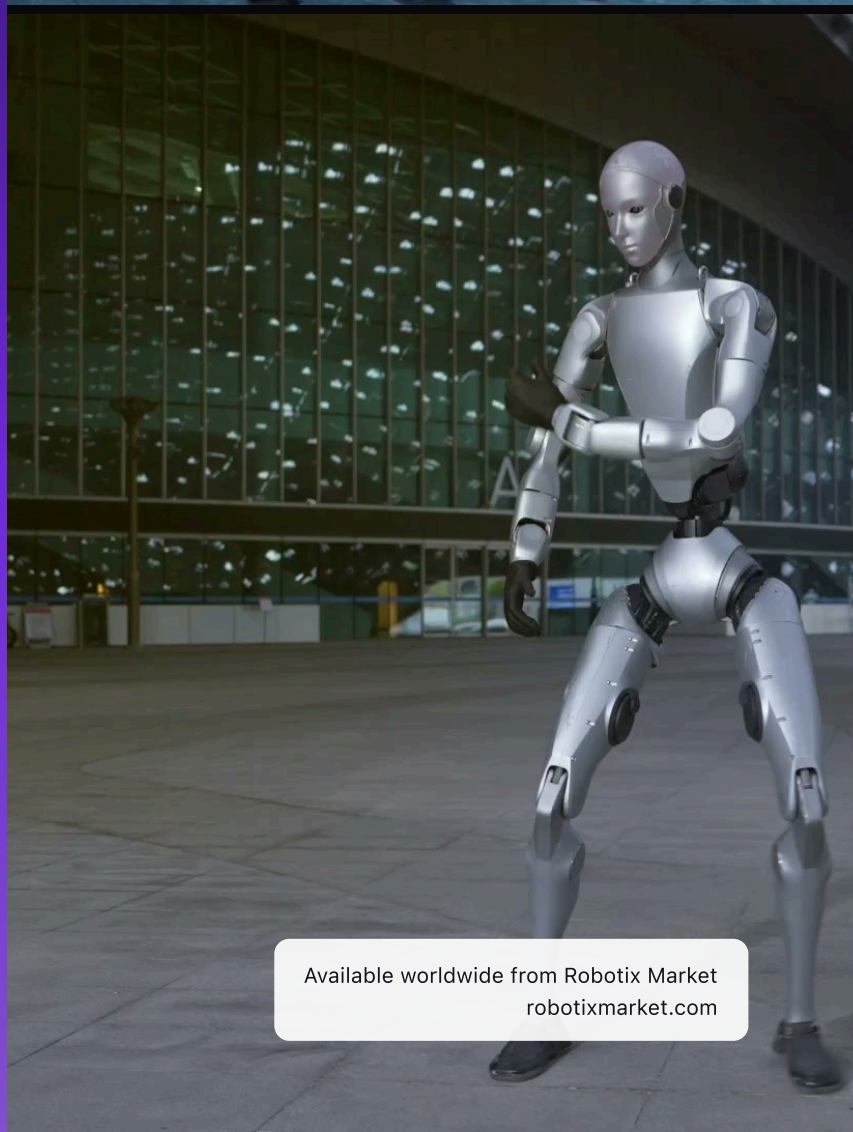
UNITREE · HUMANOID ROBOTS · ROBOTIX MARKET

Unitree

H2 EDU

The research edition of Unitree's 182 cm humanoid: H2 EDU, EDU Standard and the EDU SMART hand packages

31 degrees of freedom, an Intel Core i7 development computer with SDK, dexterous-hand packages and an optional NVIDIA Jetson Thor module.



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OVERVIEW

The H2 opened up for research

The H2 EDU is Unitree's research edition of the H2: the same 182 cm, 70 kg, 31-joint biped, with a second onboard computer for your own software, secondary development and the SDK, dexterous-hand options and a slot for a high-power AI module. This brochure covers the H2 EDU, the EDU Standard and the eight EDU SMART packages, which add a pair of hands; the standard H2, the H2-A upper body, the H2-D wheeled platform and the H2 Plus each have their own brochure.

Full-size, human proportions

1820 × 456 × 218 mm standing, about 70 kg with the battery; 1045 mm legs, 690 mm arms. Aircraft-grade aluminium, titanium alloy and high-strength engineering plastics, with a bionic head and facial features on every model.

Joints built for dynamics

Low-inertia, high-speed internal-rotor PMSM motors on industrial-grade crossed roller bearings: 120 N·m at the arm joints, 360 N·m at the leg joints, and an arm payload of about 7 kg rated, 15 kg peak.

Runs on a quick-release smart battery

15 Ah, 0.972 kWh, up to 75.6 V, about 3 hours of use; charger and handheld remote control in the box with every H2 EDU.

31 degrees of freedom

6 in each leg, 7 in each arm, 3 in the waist and 2 in the head. Unitree's motion-control algorithms replicate dynamic movements precisely and keep evolving through OTA updates.

Sees, hears and speaks

A humanoid binocular camera with a wide field of view, an array microphone and a high-power speaker for voice interaction, Wi-Fi 6 and Bluetooth 5.2 on every H2 EDU.

Built for development

Two computers as standard: an Intel Core i5 for motion control and an Intel Core i7 (10 cores, 16 or 32 GB) for your own software, with secondary development and Unitree's SDK. Optional AI modules: NVIDIA Jetson Thor (2070 TFLOPS, 128 GB) or Jetson Orin NX (100 TOPS).

1820 mm	31	360 N·m	~7 kg	~3 h
STANDING HEIGHT	DEGREES OF FREEDOM	LEG JOINT TORQUE	RATED ARM PAYLOAD	PER BATTERY CHARGE

Which H2 EDU?

TEN WAYS TO ORDER THE RESEARCH EDITION

H2 EDU

Unitree's research edition

Intel Core i5 + Core i7 computers, secondary development and SDK, no hands fitted; battery, charger and remote; 12-month warranty.

EDU Standard

The EDU platform, base configuration

The H2 EDU without hands, ready for your own end effectors; configuration confirmed with your quotation.

EDU SMART A–H

The EDU with a pair of hands

Eight packages on one body: the letter names the hands fitted, from Dex1-1 grippers (A) to tactile Dex5-1P five-finger hands (E). Compared on page 3.

Choosing by task

WHICH PACKAGE FOR WHICH KIND OF WORK — FULL COMPARISON ON PAGE 3

Gripping and carrying

Package A — Dex1-1 grippers: parallel jaws for form-fitting loads up to 20 kg with adjustable force; the simplest hand to control and the entry package.

Force-controlled manipulation

Packages B and C — Dex3-1 three-finger hands on brushless force-control joints for grasping and in-hand control research; C adds 33 pressure sensors per hand.

Human-like dexterity

Packages F and G — BrainCo Revo 2, a 383 g five-finger hand with 50 N grip, G with fingertip tactile modules; H — Inspire RH56DFQ, a fast 6-DoF five-finger hand; D and E — Dex5-1 with 16 DoF per hand, E with 94 pressure sensors.

WHICH PACKAGE?

The letter is the hands

Every EDU SMART package is the H2 EDU with a pair of hands fitted to the wrist interfaces; the body, computers and accessories are the same in every package. The table runs from the base robot to the most dexterous package, with the hands' figures as their makers publish them.

PACKAGE	HANDS FITTED (PAIR)	FINGERS · DOF PER HAND	ROBOT DOF	SENSING	GRIP AND LOAD, PER THE HAND'S MAKER	PER HAND
H2 EDU	None — hand interfaces on the back	—	31	—	Unitree's research edition: Core i5 + Core i7, secondary development, SDK; 12-month warranty	—
EDU Standard	None fitted — the EDU platform in its base configuration	—	31	—	Configuration confirmed with your quotation	—
EDU SMART **A**	2 × Unitree Dex1-1 gripper, Advanced Edition	2 jaws · 1	33	—	5–120 N adjustable; 20 kg form-fitting, 5 kg friction load; 90 mm stroke, closes in 0.24 s	550 g
EDU SMART **F**	2 × BrainCo Revo 2 Basic five-finger hand	5 fingers · 11 (6 active)	43	—	≥ 50 N fist, ≥ 15 N pinch; ≥ 20 kg payload; 0.1° repeatability; closes in ≤ 0.65 s	383 g
EDU SMART **B**	2 × Unitree Dex3-1 force-controlled three-finger hand	3 fingers · 7	45	Force control, joint torque feedback	7 brushless force-control joints; ± 2 mm fingertip repeatability; 500 g in Unitree's 5 cm-object grasp test	710 g
EDU SMART **H**	2 × Inspire RH56DFQ five-finger hand	5 fingers · 6 (12 joints)	43	Integrated position and force sensing	Fast fingers: four-finger flexion up to 570°/s, thumb swing 235°/s; ± 0.2 mm repeatability	≈ 0.5 kg
EDU SMART **C**	2 × Unitree Dex3-1 Tactile three-finger hand	3 fingers · 7	45	33 pressure sensors in 9 arrays, 10 g – 2.5 kg	As Dex3-1: force control, ± 2 mm fingertip repeatability	710 g
EDU SMART **G**	2 × BrainCo Revo 2 Touch five-finger hand	5 fingers · 11 (6 active)	43	Fingertip tactile modules, tactile adaptive control	As Revo 2 Basic: ≥ 50 N fist, ≥ 15 N pinch, ≥ 20 kg payload, 0.1° repeatability	383 g
EDU SMART **D**	2 × Unitree Dex5-1 five-finger hand	5 fingers · 16	63	Force control, joint torque feedback	12 force-controlled + 4 geared joints; ± 1 mm fingertip; 10 N fingertip; 3.5–4.5 kg in Unitree's grasp test	1,100 g
EDU SMART **E**	2 × Unitree Dex5-1P Tactile five-finger hand	5 fingers · 16	63	94 pressure sensors in 12 arrays, 10 g – 2.5 kg	As Dex5-1: 16 DoF force control, ± 1 mm fingertip, 10 N fingertip	1,100 g

The letter of an EDU SMART package identifies the pair of hands fitted. Hand figures are the hand makers' own (Unitree Dex1-1, Dex3-1 and Dex5-1; BrainCo Revo 2; Inspire RH56DFQ); Unitree's grasp-test loads are measured on a 5 cm round object. Hand edition, wrist cameras and software options are confirmed with your quotation.

Unitree Dex1-1

Gripper · package A

- Parallel jaws, 90 mm stroke; 5–120 N adjustable grip
- 20 kg form-fitting load; closes in 0.24 s; 550 g

BrainCo Revo 2

Bionic five-finger · F Basic, G Touch

- 11 DoF (6 active), 160 mm, 383 g; ≥ 50 N fist, ≥ 20 kg payload
- 0.1° repeatability; Touch adds fingertip tactile modules

Unitree Dex3-1

Three-finger force control · B, C Tactile

- 7 DoF: thumb 3, index 2, middle 2; 710 g
- 7 brushless force-control joints; Tactile: 33 pressure sensors

Inspire RH56DFQ

Fast five-finger · package H

- 6 DoF, 12 joints; about 0.5 kg; ± 0.2 mm repeatability
- Four-finger flexion up to 570°/s, thumb 235°/s

Unitree Dex5-1

Five-finger dexterity · D, E Tactile (5-1P)

- 16 DoF: thumb 4, four fingers 3 each; 1,100 g
- 12 force-controlled joints; 5-1P adds 94 pressure sensors

SIDE BY SIDE

H2 and H2 EDU compared

	H2 The standard biped — own brochure	H2 EDU This brochure: H2 EDU, EDU Standard and EDU SMART A–H
BODY		
Height × width × depth, standing	1820 × 456 × 218 mm	
Weight, with battery	About 70 kg	
Materials	Aircraft-grade aluminium, titanium alloy, high-strength engineering plastics	
Calf + thigh · forearm + upper arm	1045 mm · 690 mm	
Bionic head with facial features	Yes	
JOINTS		
Degrees of freedom, total	31	
Per leg · per arm · waist · head	6 · 7 · 3 · 2	
Dexterous hand	—	Dexterous hand, multiple model options
Joint output bearing	Industrial-grade crossed roller bearings	
Joint motor	Low-inertia, high-speed internal-rotor PMSM	
Maximum joint torque, arm · leg*	120 N·m · 360 N·m	
Arm payload*	Peak about 15 kg; rated about 7 kg	
ELECTRICAL		
Cooling	Local air cooling	
Battery	Premium lithium battery, 15 Ah (0.972 kWh), max. 75.6 V	
Battery life	About 3 h	
Computing, PC1	Intel Core i5 (platform capabilities)	
Computing, PC2	—	Intel Core i7 (custom development)
High-power computing module	—	Multiple brands and models, such as NVIDIA Jetson Thor (2070 TOPS)
SENSING AND INTERACTION		
Vision	Humanoid binocular camera, wide field of view	
Voice	Array microphone and high-power speaker	
Wi-Fi 6 · Bluetooth 5.2	Yes	
ACCESSORIES AND SOFTWARE		
Smart battery (quick release) · charger · manual controller	Yes · Yes · Yes	
Intelligent OTA upgrades	Yes	
Secondary development	—	Yes (secondary development manual)
Warranty period	8 months	12 months

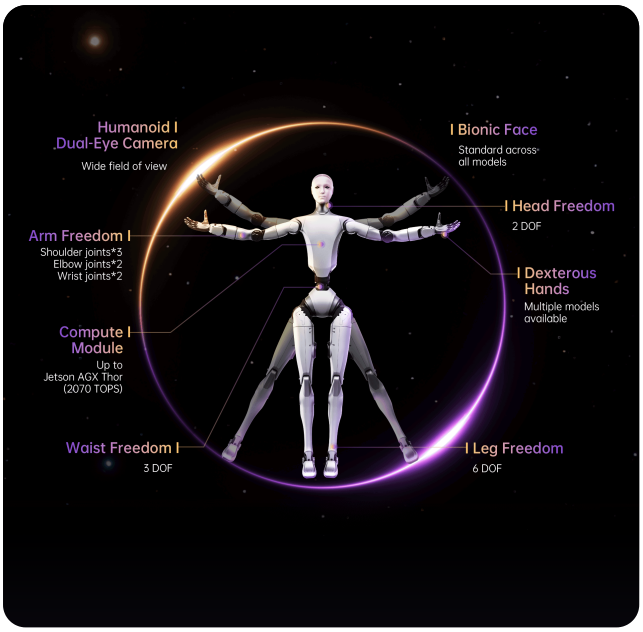
Unitree's published parameter table. A value shown once applies to both. — means the item is not part of that model. * Unitree notes that torque and payload figures may vary with scenario and configuration. Every package in this brochure is the H2 EDU column; the standard H2 has its own brochure.

Sources: unitree.com/H2 (parameter table and product page), the Unitree H2 User Manual V1.1 (accessory list, specification comparison, interfaces), the H2 Remote Control and H2 Battery and Charger manuals, Unitree's H2 developer documentation (back panel, camera, onboard computers PC1–PC4), Unitree's Dex1-1, Dex3-1 and Dex5-1 pages, BrainCo's Revo 2 parameter sheet and Inspire Robots' RH56 documentation, read September 2026. Figures are the manufacturers'; where a value is not published it is marked rather than estimated.

ANATOMY

What is where on the H2

Unitree's own callout graphic of the H2. The dexterous hands and the high-power computing module it names are the H2 EDU's options; the bionic face is standard across all models.



Back panel, per Unitree's developer documentation: six USB-C ports, one GMSL video input, two gigabit Ethernet ports, four GXT30 power outputs with RS-485 or CAN (12 V, 24 V and direct battery; 500 W in total) and two dexterous-hand connectors, plus M6 mounting holes at 176 × 150 mm and 100 mm spacing.

Shared by every H2 EDU

THE SAME PLATFORM UNDER EVERY PACKAGE

Standing height
1820 mm; 456 mm wide, 218 mm deep

Weight
About 70 kg with the battery

Degrees of freedom
31: legs 6 + 6, arms 7 + 7, waist 3, head 2

Joint torque
120 N·m arm joints · 360 N·m leg joints

Arm payload
About 7 kg rated, about 15 kg peak

Reach
Calf + thigh 1045 mm · forearm + upper arm 690 mm

Battery
15 Ah, 0.972 kWh, 64.8 V rated, 75.6 V max; about 3 h

Cooling
Local air cooling

In the box

UNITREE'S H2 ACCESSORY LIST — THE SAME FOR THE EDU

From the Unitree H2 user manual, which covers the EDU. SMART packages add the hands and their fittings; we confirm the full packing list with your quotation.

- Remote controller
- Battery and battery charger
- Protective stand
- Lying-posture packaging case
- Waist calibration blocks A and B
- Hip calibration fixtures A and B
- Ankle calibration fixtures (2) and IMU calibration fixture
- Specialised lanyard for lifting
- Front and rear foot airbags (4 + 4)
- M4 × 20 screws (4), M4 hex wrench, level
- XT30-M connectors (6), power connectors (4)

Power and control

THE ACCESSORIES IN EVERY H2 EDU BOX, BY UNITREE'S MANUALS

Smart battery

Quick release, Unitree BMS

- 15 Ah · 0.972 kWh · about 3 h
- 64.8 V rated · 75.6 V max.
- Balanced-charging, overcharge and short-circuit protection
- Powers on only when fitted to the robot

Battery charger

Mains, 100–240 V

- Input 100–240 V~ 50/60 Hz, 5.0 A
- Output 76.5 V, 2–6.6 A (about 499 W)
- About 2 h 40 min for a full charge at 25 °C
- The first charge takes the battery out of shipping mode

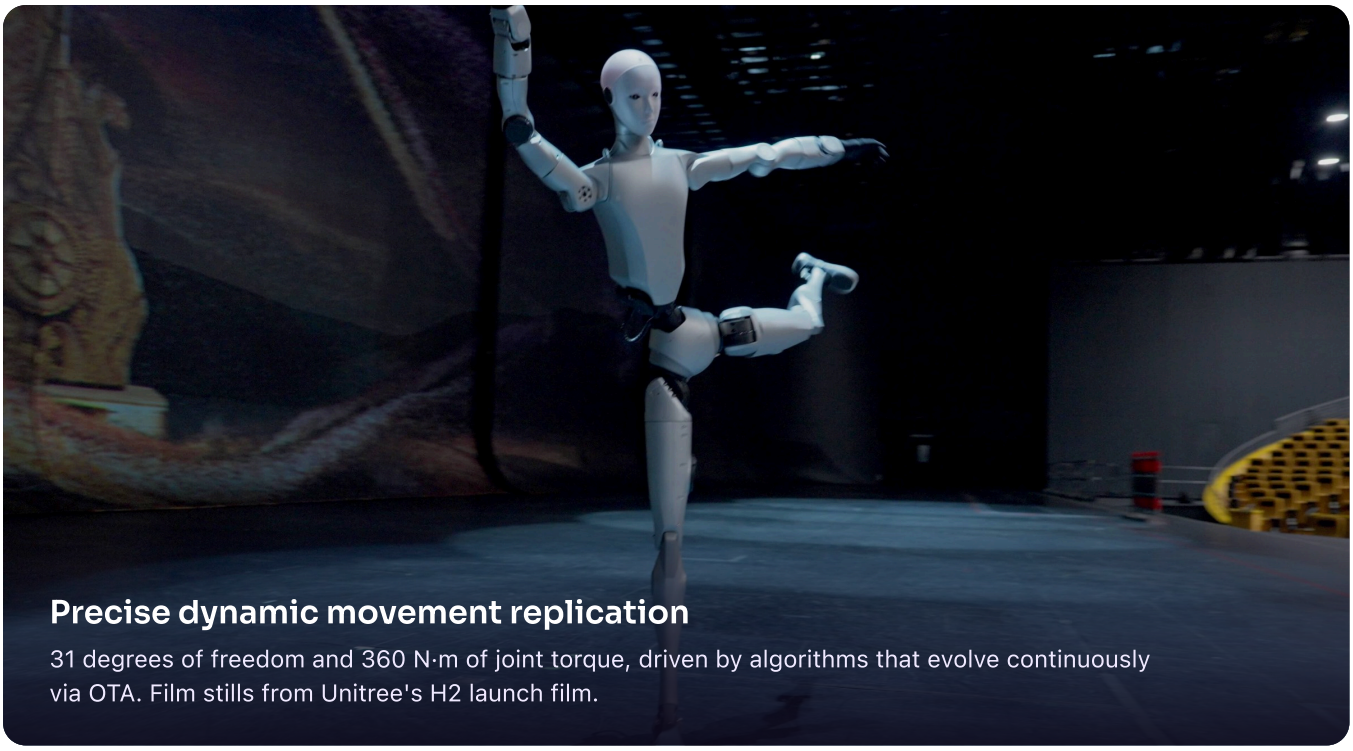
Handheld remote control

R3 joystick remote

- 780 mAh battery, about 5 h
- Data-transmission module and Bluetooth
- More than 100 m in an open environment
- Hard emergency stop; soft stop (damping) on L2 + B
- USB-C charging, 5 V / 700 mA

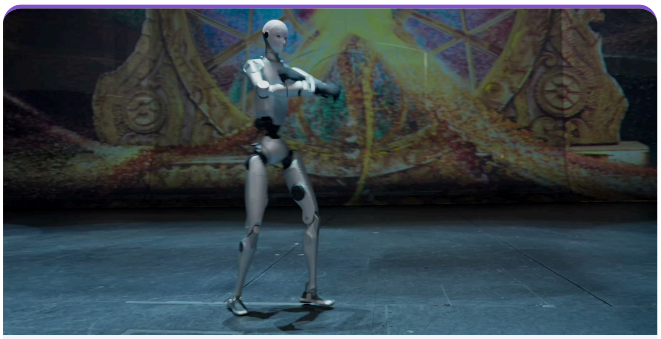
HIGHLIGHTS

Motion control, breathing life into form



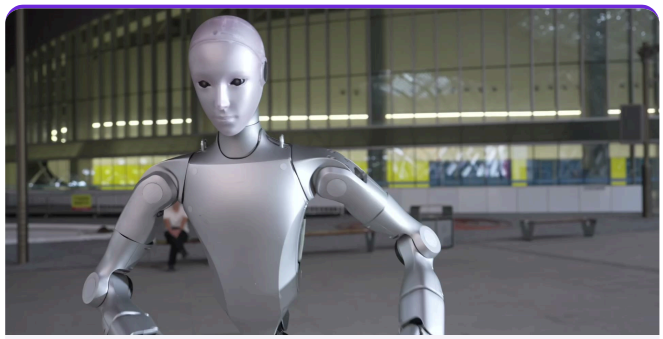
Precise dynamic movement replication

31 degrees of freedom and 360 N·m of joint torque, driven by algorithms that evolve continuously via OTA. Film stills from Unitree's H2 launch film.



Exquisite stance, elegant renewal

The 182 cm humanoid design, in Unitree's words, "redefines industrial aesthetics with its streamlined elegance": aircraft-grade aluminium, titanium alloy and engineering plastics, about 70 kg.



Humanoid binocular vision

Two global-shutter RGB sensors of 2064 × 1552 px on a 60 mm baseline, with a 156° × 116° field of view, behind the bionic face; an array microphone and a high-power speaker for voice interaction.

15 Ah

0.972 KWH · ABOUT 3 H

Smart battery and charger

15 Ah / 0.972 kWh quick-release battery with Unitree's own BMS, about 3 hours per charge. The charger takes 100–240 V and delivers up to 6.6 A at 76.5 V.

>100 m

RANGE IN AN OPEN ENVIRONMENT

Handheld remote control

Joystick remote with a data-transmission module and Bluetooth: 5 hours per charge, more than 100 m of range in an open environment, USB-C charging.

WHERE IT WORKS

From the lab to the stage

Research and algorithm development

A 31-DoF full-size platform for locomotion, whole-body control and learning research, with secondary development, Unitree's SDK and the development guide included.

Education and training

Universities and training centres get a human-scale humanoid with published dimensions, torques and interfaces, an app, a remote control and a manual that walks through unboxing to calibration.

Shows, exhibitions and performance

Unitree's H2 films show it dancing, boxing and walking a fashion runway: the motion-control stack replicates dynamic movement on stage and at events.

Embodied-AI development

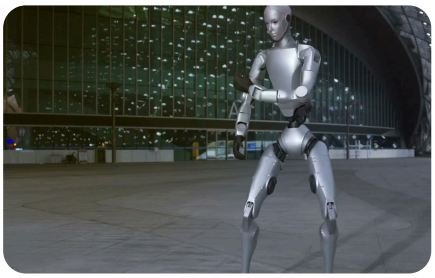
With the optional NVIDIA Jetson Thor module (2070 TFLOPS, 128 GB) or Jetson Orin NX (100 TOPS), Unitree positions the H2 EDU for deploying embodied large models across work scenarios.

Industrial-scene exploration

Unitree describes the H2 as designed for industrial-grade applications in complex environments; it is a research and development platform today, not a turnkey worker.

Motion capture and replication

Precise dynamic-movement replication of captured human motion, with algorithms that improve through OTA updates.



Unitree's own advice: the humanoid robot industry is at an early stage of exploration; keep a sufficient safe distance between the robot and people, and understand the platform's limitations before buying. Operate at 0–40 °C on firm, dry ground — the H2 is not waterproof or dustproof — and use it as the civilian robot it is, without modifications or hazardous use.

Unitree Explore app, manuals and tutorials

The H2 connects to the Unitree Explore app (international version, iOS and Android) for start-up, network connection, remote-control binding, calibration and debug mode; Unitree's download centre publishes the tutorial videos for each step and the H2 user, remote-control and battery manuals. Unitree provides no on-site service for the H2; support is coordinated with its service network.

Getting started

THE STEPS UNITREE'S H2 TUTORIALS WALK THROUGH

1. **Unboxing**
   Lift the H2 out of its case by the lanyard and shoulder latches; remove the foam.
2. **Activate the battery**
   The first charge takes the battery out of shipping mode; lock the protective stand.
3. **Power on while suspended**
   First start-up on the stand, following Unitree's power-on video.
4. **Connect the app**
   Unitree Explore, international version, on iOS or Android.
5. **Bind the remote**
   Pair the handheld remote control and check its charge.
6. **Calibrate**
   Waist, hip, ankle and IMU calibration; then debug mode.

NEXT STEP

Choose your H2 EDU package

Tell us what you are developing — locomotion, manipulation, embodied-AI models, teaching — and which hands and AI module you need. We will recommend the package and come back with a configuration, a delivery estimate to your address and a formal quotation.

Request a quotation

Web

robotixmarket.com/products/unitree-robotics-h2-edu

Every package has its own page: scan its code.

Email · info@robotixmarket.com

Current prices for your market are on the product pages; configuration and delivery are confirmed with your quotation. Robotix Market ships worldwide.

H2 EDU · EDU Standard · EDU SMART A · EDU SMART F · EDU SMART B

EDU SMART H · EDU SMART C · EDU SMART G · EDU SMART D · EDU SMART E

Sourced new

Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with Unitree's manufacturer warranty and official documentation: 12 months on the H2 EDU per Unitree's published terms; the term of each package is confirmed with your quotation.

Support

Technical support is coordinated with the manufacturer's service network.

See it in action · Unitree H2 — Destiny Awakening: youtube.com/watch?v=eUdBIFkMh-M
Every punch comes through: youtube.com/watch?v=kjJeQZECPcQ

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