

ROBOTIX MARKET

PRODUCT BROCHURE
2026 edition

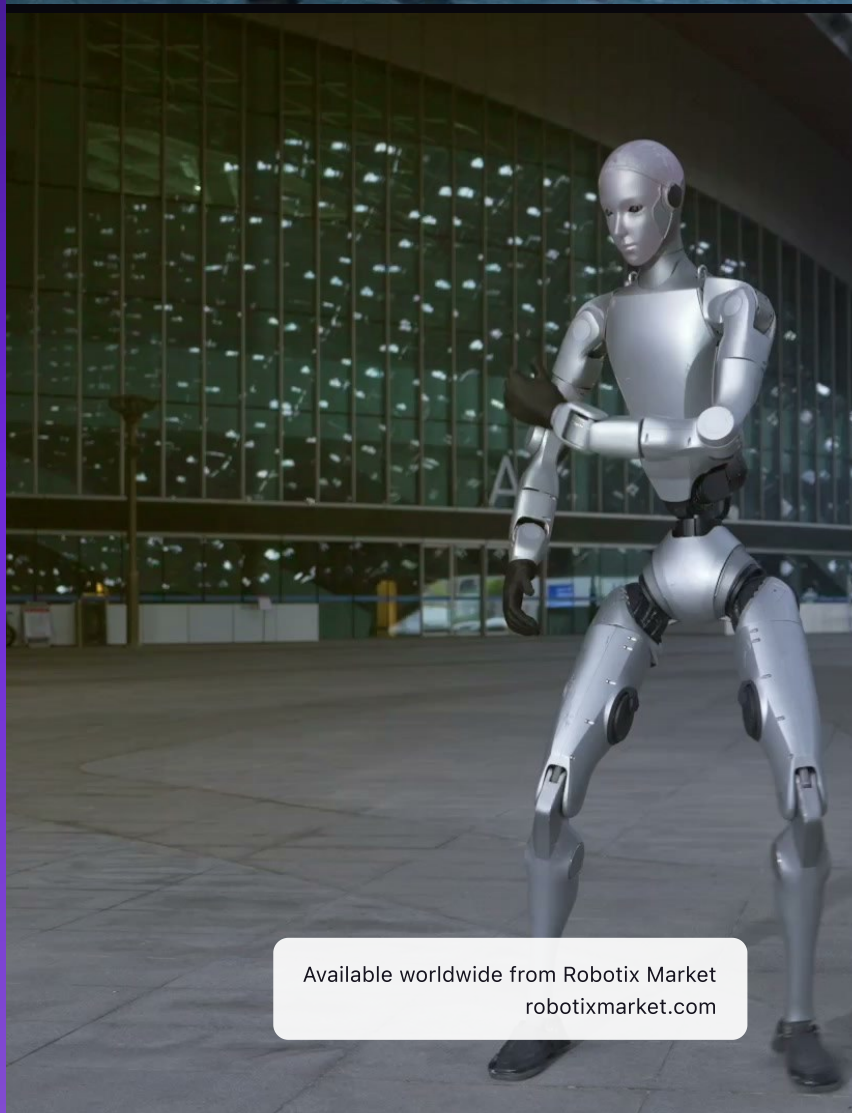
UNITREE · HUMANOID ROBOTS ·
ROBOTIX MARKET

Unitree

H2

Unitree's 182 cm full-size
humanoid, in its H2 and H2
Basic configurations

31 degrees of freedom, 360 N·m leg
joints, a quick-release smart battery and
room for a 2070 TOPS AI module.



Available worldwide from Robotix Market
robotixmarket.com

OVERVIEW

A humanoid built to move like one

The Unitree H2 is a full-size humanoid robot: 182 cm tall, about 70 kg, 31 joints driven by low-inertia motors on industrial-grade bearings. Unitree calls the design "Elegant Rebirth": a streamlined body with a bionic face, a binocular camera and voice interaction. This brochure covers the biped in its H2 and H2 Basic configurations.

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.

31 degrees of freedom

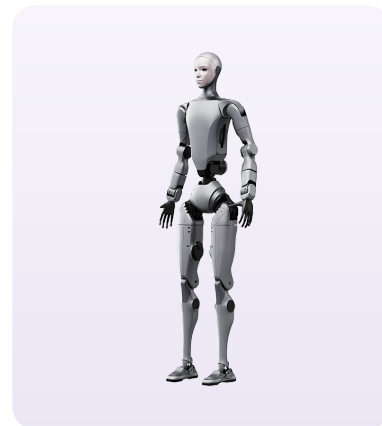
6 in each leg, 7 in each arm, 3 in the waist and 2 in the head. Unitree's motion-control algorithms replicate dynamic movements precisely and keep evolving through OTA updates.

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.

Room for embodied AI

An Intel Core i5 motion computer on every H2. The H2 EDU adds an Intel Core i7 development computer, secondary development, dexterous-hand options and an optional NVIDIA Jetson Thor module (2070 TOPS).



1820 mm

STANDING HEIGHT

31

DEGREES OF
FREEDOM

360 N·m

LEG JOINT TORQUE

~7 kg

RATED ARM
PAYLOAD

~3 h

PER BATTERY
CHARGE

Which H2?

TWO WAYS TO ORDER THE BIPED

H2

The standard H2

Intel Core i5 motion computer, no hands fitted; battery, charger and remote control; 8-month warranty.

H2 Basic

The H2 platform, base configuration

The H2 body without hands, ready for your own end effectors and software; configuration and warranty term confirmed with your quotation.

The H2 line

THE SAME PLATFORM IN FIVE FORMS — EACH WITH ITS OWN BROCHURE

H2 EDU

Research edition: Intel Core i7 development computer, secondary development and SDK, dexterous-hand options, optional Jetson Thor; 12-month warranty.

H2-A

The H2 upper body — head, waist and both arms — on a fixed mount, with a pair of hands; seven hand packages.

H2-D

The H2 upper body on a lift column: Standard on a fixed base, Flagship on a mobile base with LiDAR.

H2 Plus

The biped with NVIDIA Jetson Thor onboard, a 5 MP stereo camera, optional wrist cameras and Sharpa Wave tactile hands.

H2 and H2 EDU compared

H2

This brochure: the H2 and H2 Basic

H2 EDU

Research edition with secondary development — own brochure

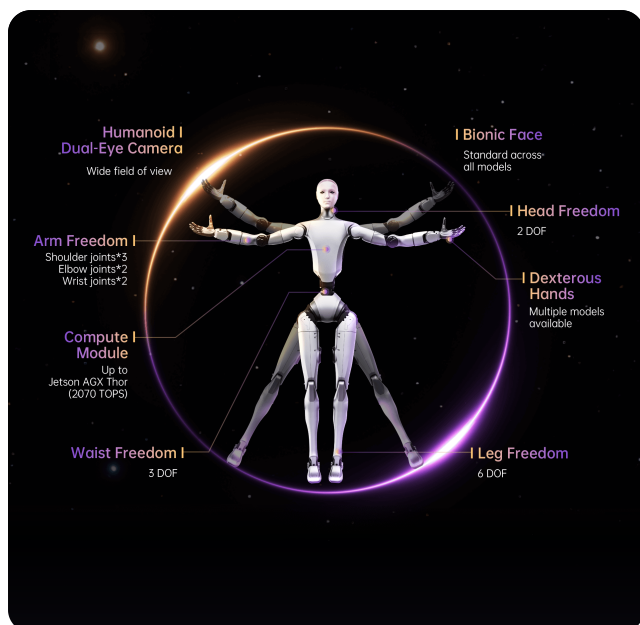
BODY		
Height × width × depth, standing		1820 × 456 × 218 mm
Weight, with battery		About 70 kg
Materials		Aircraft-grade aluminium, titanium alloy, high-strength engineering plastics
Calf + thigh · forearm + upper arm		1045 mm · 690 mm
Bionic head with facial features		Yes
JOINTS		
Degrees of freedom, 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. The H2 and H2 Basic in this brochure are the H2 column; the H2 EDU 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, and Unitree's H2 developer documentation (back panel, camera, onboard computers), read September 2026. Figures are the manufacturer's; where a value is not published it is marked rather than estimated.

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 options of the H2 EDU; 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

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

From the Unitree H2 user manual. Packages with hands 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 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

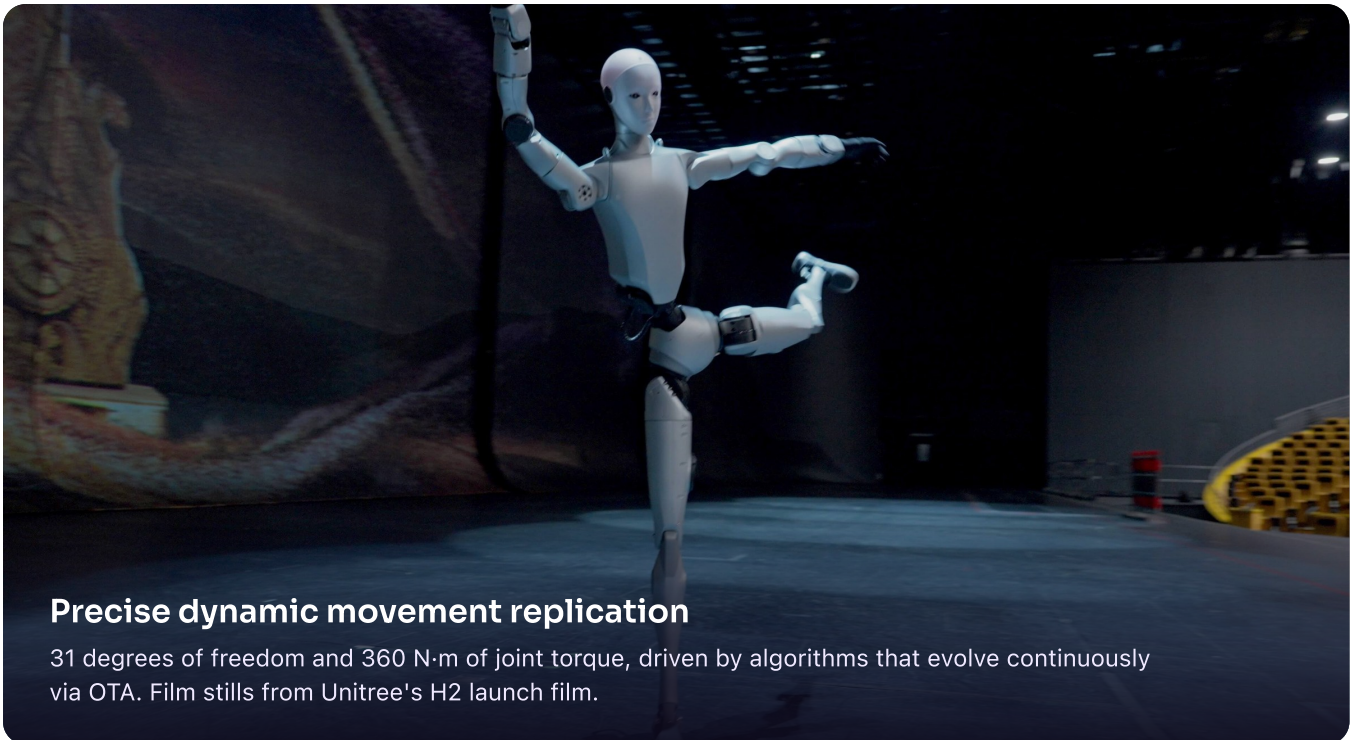
Handheld remote control

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

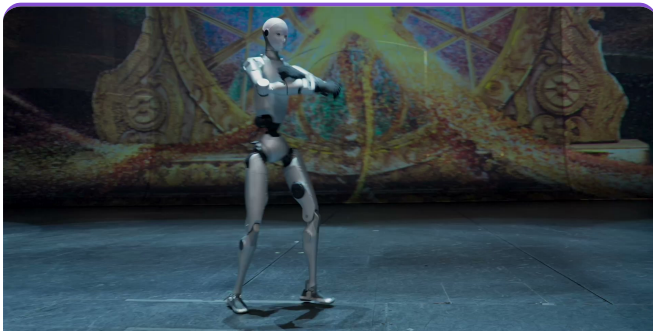
HIGHLIGHTS

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.

From the lab to the stage

Research and algorithm development

A 31-DoF full-size platform for locomotion, whole-body control and learning research. Secondary development, the SDK and the development guide are part of the H2 EDU.

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 demonstrations

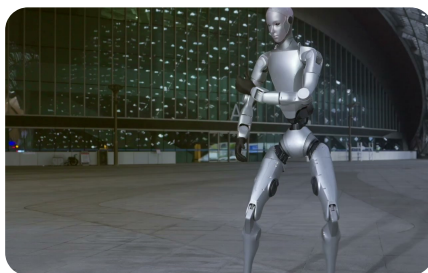
With the optional high-power computing module of the H2 EDU (NVIDIA Jetson Thor, 2070 TOPS), Unitree positions the H2 for deploying embodied large models across work scenarios.

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

Order your H2

Tell us what you want the robot to do — research, teaching, demonstrations or development — and whether you need secondary development or hands. We will recommend the configuration, or the H2 EDU, H2-A, H2-D or H2 Plus if they fit better, and come back with a delivery estimate to your address and a formal quotation.

Request a quotation

Web

robotixmarket.com/products/unitree-robotics-h2

H2 Basic: scan its code for the page.

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



H2 Basic

Sourced new

Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with Unitree's manufacturer warranty and official documentation: 8 months on the H2 per Unitree's published terms; the term of the H2 Basic 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=kJeQZECpCQ