

UNITREE · HUMANOID ROBOTS ·
ROBOTIX MARKET

Unitree

H2-A

The H2's upper body on a fixed mount, with a pair of hands: seven packages

Two 7-DoF arms with 120 N·m joints, the H2's head and senses, and the hands you choose — from grippers to tactile five-finger hands.



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OVERVIEW

The H2's arms, head and senses, on your bench

The Unitree H2-A is the upper body of the H2 humanoid — head, torso, waist and both arms — on a square mounting plate instead of legs. It brings the H2's 7-DoF arms, 120 N·m joints and binocular vision to a fixed workstation, and every H2-A Standard package pairs it with a specific set of hands. The standard H2, the H2 EDU, the H2-D wheeled platform and the H2 Plus each have their own brochure.

Two 7-DoF arms

Shoulder 3, elbow 2 and wrist 2 on each arm, 690 mm from shoulder to wrist, on low-inertia PMSM motors and industrial-grade crossed roller bearings: 120 N·m at the joints, about 7 kg rated and 15 kg peak payload per arm.

The H2's head and senses

A bionic head with facial features and a 2-DoF neck; a humanoid binocular camera (2064 × 1552 px, 156° × 116° field of view) and an array microphone with a high-power speaker for voice interaction.

Open interfaces

The H2 torso's back panel: USB-C ports, a GMSL video input, gigabit Ethernet, power outputs with RS-485 or CAN, and two dexterous-hand connectors feeding the wrists.

A pair of hands in every package

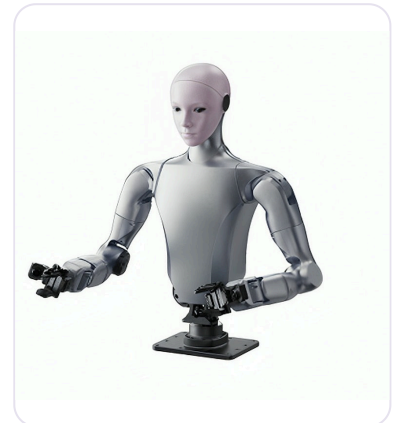
Seven packages, one upper body: the letter names the hands — Dex1-1 grippers, Dex3-1 three-finger hands with or without tactile sensing, BrainCo Revo 2 five-finger hands, or 16-DoF Dex5-1 hands. Compared on page 3.

Fixed mount

The torso turns on a waist joint above a square mounting plate: a manipulation platform for a bench, a cart or a work cell, without legs to balance. Mount dimensions are confirmed with your quotation.

Configured to your order

Power supply, onboard computer, software and accessories are specified with your quotation, so the platform arrives set up for the hands you chose.



7 + 7

ARM DEGREES OF
FREEDOM

120 N·m

ARM JOINT
TORQUE

~7 kg

RATED ARM
PAYLOAD

156°

CAMERA FIELD OF
VIEW

7

HAND PACKAGES

Which H2-A?

SEVEN PACKAGES, SORTED BY THE HANDS THEY CARRY

Gripping and carrying

Package A

Dex1-1 parallel grippers: 5–120 N adjustable grip, 20 kg form-fitting load; the simplest hands 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, G, D and E

F and G: BrainCo Revo 2, a 383 g five-finger hand with 50 N grip, G with fingertip tactile modules. D and E: Dex5-1 with 16 DoF per hand, E with 94 pressure sensors.

The H2 line

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

H2

The full biped: 182 cm, 31 DoF, Intel Core i5 motion computer; no hands, 8-month warranty. Also as H2 Basic.

H2 EDU

The biped opened for research: Intel Core i7 development computer, SDK, hand packages, optional Jetson Thor; 12-month warranty.

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 Sharp Wave tactile hands.

WHICH PACKAGE?

The letter is the hands

Every H2-A Standard package is the same upper body with a different pair of hands fitted to the wrist interfaces. The table runs from the simplest hands to the most dexterous, with the hands' figures as their makers publish them.

PACKAGE		HANDS FITTED (PAIR)	FINGERS · DOF PER HAND	HANDS DOF	SENSING	GRIP AND LOAD, PER THE HAND'S MAKER	PER HAND
H2-A Standard	A	2 × Unitree Dex1-1 gripper, Advanced Edition	2 jaws · 1	2	—	5–120 N adjustable; 20 kg form-fitting, 5 kg friction load; 90 mm stroke, closes in 0.24 s	550 g
H2-A Standard	F	2 × BrainCo Revo 2 Basic five-finger hand	5 fingers · 11 (6 active)	12	—	≥ 50 N fist, ≥ 15 N pinch; ≥ 20 kg payload; 0.1° repeatability; closes in ≤ 0.65 s	383 g
H2-A Standard	B	2 × Unitree Dex3-1 force-controlled three-finger hand	3 fingers · 7	14	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
H2-A Standard	G	2 × BrainCo Revo 2 Touch five-finger hand	5 fingers · 11 (6 active)	12	Fingertip tactile modules, tactile adaptive control	As Revo 2 Basic: ≥ 50 N fist, ≥ 15 N pinch, ≥ 20 kg payload, 0.1° repeatability	383 g
H2-A Standard	C	2 × Unitree Dex3-1 Tactile three-finger hand	3 fingers · 7	14	33 pressure sensors in 9 arrays, 10 g – 2.5 kg	As Dex3-1: force control, ± 2 mm fingertip repeatability	710 g
H2-A Standard	D	2 × Unitree Dex5-1 five-finger hand	5 fingers · 16	32	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
H2-A Standard	E	2 × Unitree Dex5-1P Tactile five-finger hand	5 fingers · 16	32	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 H2-A Standard 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); 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	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

Sources: unitree.com/H2 (parameter table), the Unitree H2 User Manual V1.1 and Unitree's H2 developer documentation for the shared upper-body figures (arms, head, camera, voice, interfaces); Unitree's Dex1-1, Dex3-1 and Dex5-1 pages and BrainCo's Revo 2 parameter sheet for the hands, read September 2026. Unitree publishes no separate H2-A table: figures that depend on the mount are confirmed at quotation rather than estimated.

What every H2-A carries

The upper body of Unitree's H2, as its own callout graphic shows it: arms, head, waist and senses are the H2's, with the hands of your package on the wrists.



Unitree's H2 callout graphic, upper body. The high-power computing module it names is an option; the bionic face is standard across all models.

Shared by every H2-A

THE H2'S UPPER-BODY FIGURES

Arms

7 DoF each: shoulder 3, elbow 2, wrist 2

Reach

Forearm + upper arm
690 mm

Arm joint torque

120 N·m maximum

Arm payload

About 7 kg rated, about
15 kg peak

Head

Bionic face, 2 DoF

Vision

Binocular camera,
2064 × 1552 px,
156° × 116°, 60 mm
baseline

Voice

Array microphone, high-
power speaker

Connectivity

Wi-Fi 6, Bluetooth 5.2,
gigabit Ethernet

Configured to your order

SPECIFIED ON YOUR QUOTATION

Unitree builds the H2-A on the H2's upper body; the mount, power and computer configuration are set per order. We list them on your quotation together with the hands of your package.

- Weight of the upper body on its mount
- Power supply: mains adapter or battery
- Onboard computer and software
- Mounting-plate dimensions and bolt pattern
- Wrist cameras and hand editions
- Remote control and accessories



Manipulation without the walking

Manipulation research

Two 7-DoF arms with force-controlled or tactile hands on a fixed base: grasping, in-hand manipulation, bimanual tasks and learning from demonstration, without a walking robot to balance.

Embodied-AI data collection

A stable, repeatable dual-arm setup for teleoperation and demonstration recording, feeding the models that later run on the full H2 line.

Teaching labs

Human-proportioned arms, a bionic head and open interfaces on a bench: the H2's manipulation stack for coursework and student projects at lab scale.

Pick-and-place pilots

Hands from a 20 kg-load gripper to 16-DoF five-finger hands, chosen per package, for bench-level handling and assembly trials.

Human-robot interaction

The H2's face, binocular camera, microphone array and speaker on a desk-height mount for interaction and reception studies.

Demonstrations and exhibitions

A full-size humanoid torso that works on a table: the H2's presence and arm dexterity in a compact, transportable form.



Bench, column or wheels?

THE H2 UPPER BODY IN UNITREE'S THREE MOUNTINGS

H2-A · fixed plate

The upper body on a square mounting plate at bench height, with a pair of hands per package; the smallest and simplest H2 platform for a fixed workstation.

H2-D Standard · lift column

The same upper body on a lift column with 0.5 m of travel and a fixed base: 1200–1700 mm robot height, 135 kg, dual depth cameras, wrist cameras; runs from a direct power supply around the clock.

H2-D Flagship · mobile base

The column on a differential-drive base at up to 1.5 m/s with a chassis LiDAR, depth camera, collision and ultrasonic sensors and a 48 V, 30 Ah battery for about 5 hours; 135 kg. Both H2-D versions have their own brochure.

Unitree's own advice for the H2 line: keep a sufficient safe distance between the robot and people, operate at 0–40 °C in a dry indoor environment, and use it as the civilian research platform it is, without modifications or hazardous use.

NEXT STEP

Choose your H2-A package

Tell us what the arms should do — grasping research, data collection, teaching, bench handling — and we will recommend the hands, specify the mount, power and computer, and come back with a configuration, a delivery estimate to your address and a formal quotation.

Request a quotation

Web

robotixmarket.com/products/unitree-h2-a-standard-a-hu-manoid-robot

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-A Standard
A



H2-A Standard
F



H2-A Standard
B



H2-A Standard
G



H2-A Standard
C



H2-A Standard
D



H2-A Standard
E

Sourced new

Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with Unitree's manufacturer warranty and official documentation; the term of each package is confirmed with your quotation.

Support

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