

Generation ROBOTS

+33 (0)5 56 39 37 05

contact@generationrobots.com

1 rue Pierre-Georges Latécoère 33700 Mérignac, France

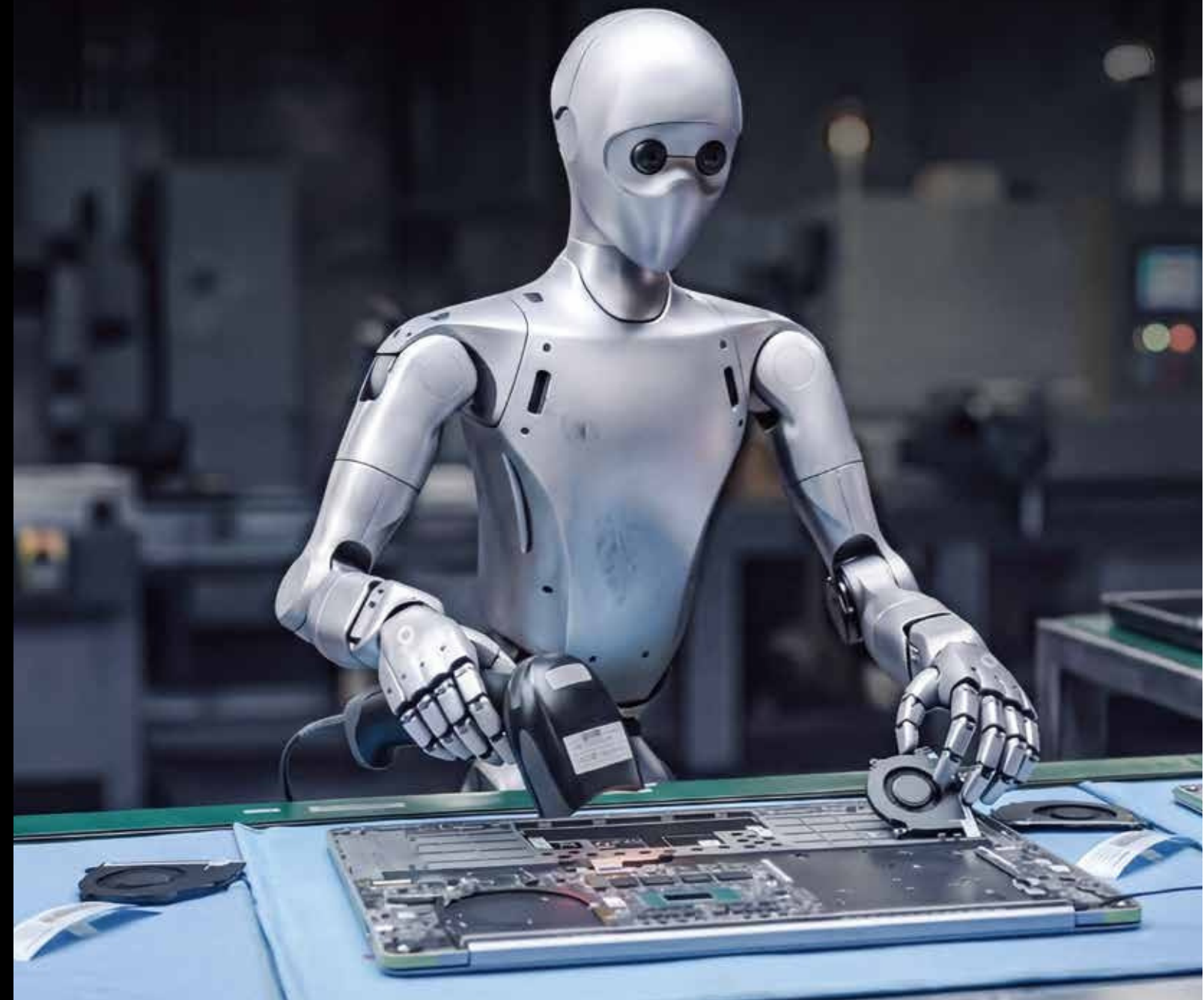
www.generationrobots.com



UNITREE

H2 PLUS

Integrated R&D and Manufacturing,
Embarking on Full-Stack Development



NVIDIA Jetson™ T5000 Onboard Compute

Featuring FP4 2,070 TFLOPS



Full Connectivity

Supports Ethernet, Wi-Fi 6, Bluetooth 5.2, and USB connections. Equipped with array microphones and speakers for voice interaction.



Whole-Body Control

Maximum Arm Torque:
120 N/m
Maximum Leg Torque
360 N/m



Multi-View Sensing

Equipped with a head-mounted stereo camera with wide field of view, wrist cameras and an IMU



Remote Emergency Stop

Enables rapid and safe robot shutdown remotely.



Battery for Extended Endurance

15Ah, 0.972 kWh capacity with approximately 3 hours of battery life.



High Payload Capacity

Rated arm payload of 7 kilograms and peak payload of 15 kilograms, enabling high-duty grasping and reaching tasks.



Dual SharpWave Tactile Five-Finger Dexterous Hands

22 active DOF in the hands and 75 total body-and-hand DOF for advanced dexterous manipulation.



Built on NVIDIA Isaac™ GR00T

Comes with open models, simulation frameworks, and validated reference workflows from data to deployment



NVIDIA® Jetson Thor™, Ultra-Powerful Onboard Compute

Equipped with an NVIDIA Blackwell GPU with 2,070 FP4 TFLOPS, a 14-core Arm CPU, 128GB of unified memory and a configurable 40W–130W power range for real-time sensor processing and robot inference.



NVIDIA Isaac TeleOp

Captures high-quality robot demonstration data for training and policy development.



NVIDIA Isaac GR00T Open Foundation Models

Supports humanoid reasoning, learning and multitask behavior.



NVIDIA Isaac Sim™ and Isaac Lab™

Simulates, trains, tests and evaluates robot policies before real-world deployment.



Accelerated NVIDIA Isaac™ ROS Middleware

Moves trained policies onto robots.



NVIDIA Jetson Thor

Runs real-time, on board inference and control.

H2 PLUS Product Parameters

Humanoid Stereo Camera

5MP wide field of view, 140°(H),102°(V), global shutter

Customized Face

Standard

Compute Module

NVIDIA Jetson T5000, 2,070 FP4 TFLOPS, a 14-core Arm CPU, 128GB of unified memory

Head Degrees of Freedom

2 Degrees of Freedom

Single Arm Degrees of Freedom

7 Degrees of Freedom

High-Precision Dexterous Hands (Optional)

Dual SharpaWave Tactile Five-Finger Dexterous Hands
22 degrees of freedom per hand, 44 degrees of freedom across both hands.
Each fingertip includes 1,000 tactile pixels.
Pressure sensitivity up to 0.005N.

Wrist Cameras (Optional)

3MP ultra-wide-angle, 196°(H), 154°(V)
Global shutter

Waist Degrees of Freedom

3 Degrees of Freedom

Single Leg Degrees of Freedom

6 Degrees of Freedom

Mechanical Dimensions

Height × Width × Depth (Standing)	1820 x 456 x 218mm
Weight with Battery	About 70kg
Degrees of Freedom (Number of Joint Motors)	31
Single Leg Degrees of Freedom	6
Single Arm Degrees of Freedom	7
Waist Degrees of Freedom	3
Head Degrees of Freedom	2
Joint Output Bearings	Industrial-grade crossed roller bearings (high precision, high load capacity)
Joint Motors	Low-inertia high-speed inner-rotor permanent magnet synchronous motors (better response speed and heat dissipation)
Maximum Arm Joint Peak Torque [1]	120N.m
Maximum Leg Joint Peak Torque [1]	360N.m
Maximum Arm Payload [1]	Peak: approx. 15kg; Rated: approx. 7kg
Lower Leg + Upper Leg Length	1045mm
Forearm + Upper Arm Length	690mm
Main Body Materials	Aerospace-grade aluminum + titanium alloy + high-strength engineering plastics

Sharpa Wave Dexterous Hand (Optional)

Dexterous Hand Weight	1.3KG
Dexterous Hand Dimensions	208 x 90 x 50mm
Active Degrees of Freedom per Dexterous Hand	22
Dexterous Hand Payload	30Kg
Dexterous Hand Grip Force	150N
Dexterous Hand Fingertip Force	20N
Dexterous Hand Operating Speed	>4Hz
Fingertip Positional Repeatability	±1mm
Number of Dexterous Hand Tactile Pixels	>1000 tactile pixels per fingertip
Dexterous Hand Force Detection Range	Range 0–30N, Sensitivity 0.005N

Other

Battery Life	About 3h
Smart OTA Upgrade	YES
Secondary Development [2]	YES
Warranty Period [3]	12 Months

[1]The above parameters may vary depending on different application scenarios and device postures. Please refer to actual performance.

[2]For detailed functions, please refer to the secondary development manual.

[3]For detailed warranty terms, please refer to the product warranty manual.

[4]Humanoid robots have complex structures and extremely powerful motion systems. Please maintain a safe distance between people and the robot and operate with caution.

[5]Product appearance may be upgraded or adjusted in the future. Please refer to the actual product.

[6]Some sample functions on this page are still being developed and tested, and will be opened to users in the future.

[7]Currently, the global humanoid robot industry is in the early stages of exploration. Individual users are strongly advised to thoroughly understand the limitations of humanoid robots before making a purchase.

[8]This product is a civilian robot. We kindly request that all users refrain from making any dangerous modifications or using the robot in a hazardous manner.

[9]Please visit Unitree Robotics Website for more related terms and policies, and comply with local laws and regulations.

Electrical Characteristics

Cooling System	Air Cooling
Power Supply Method	Low-Resistance High-Quality Lithium Battery
Battery Voltage	Maximum Voltage: 75.6V
Base Computing Power	PC1: Intel Core i5 (Platform Functions) PC2: Intel Core i7 (User Development)
Perception Sensors	Wide-FOV Humanoid Binocular Camera
External Interfaces	USB 3.0 x 3 USB+DP x 3 GMSL x 4 Gigabit Ethernet x 4 RS485 x 4 CAN x 2 Power Outputs: : 12V x 1; 24V x 2; BAT x 1 USB 2.0x 2
Voice Interaction	Voice interaction via array microphones and high-power speakers
WiFi 6 、Bluetooth 5.2	YES

Accessories

High-Performance Computing Module	NVIDIA Jetson™ T5000
Smart Battery (Quick Release)	YES
Charger	YES
Handheld Remote Controller	YES

Compute Module

AI Performance	2070 TFLOPS (FP4—sparse)
GPU	2560-core NVIDIA Blackwell Architecture GPU with 5th-Generation Tensor Cores Multi-Instance GPU with 10 TPCs
GPU Max Frequency	1.57 GHz
CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU 1 MB L2 cache per core 16 MB shared system L3 cache
CPU Max Frequency	2.6 GHz
Vision Accelerator	1x PVA v3
Memory	128 GB 256-bit LPDDR5X, 273 GB/s
Storage	Supports NVMe through PCIe Supports SSD through USB3.2
Video Encode	2x NVENC
Video Decode	2x NVDEC

Vision Module

Head Binocular Camera	Horizontal FOV 140°±3; Vertical FOV 102°±3; Aperture 2.0; Focal Length 2.67mm; Depth of Field 0.4m-INF; global shutter
Wrist Cameras (Optional)	3MP ultra-wide-angle, HFOV 196°, VFOV 154°, Global shutter