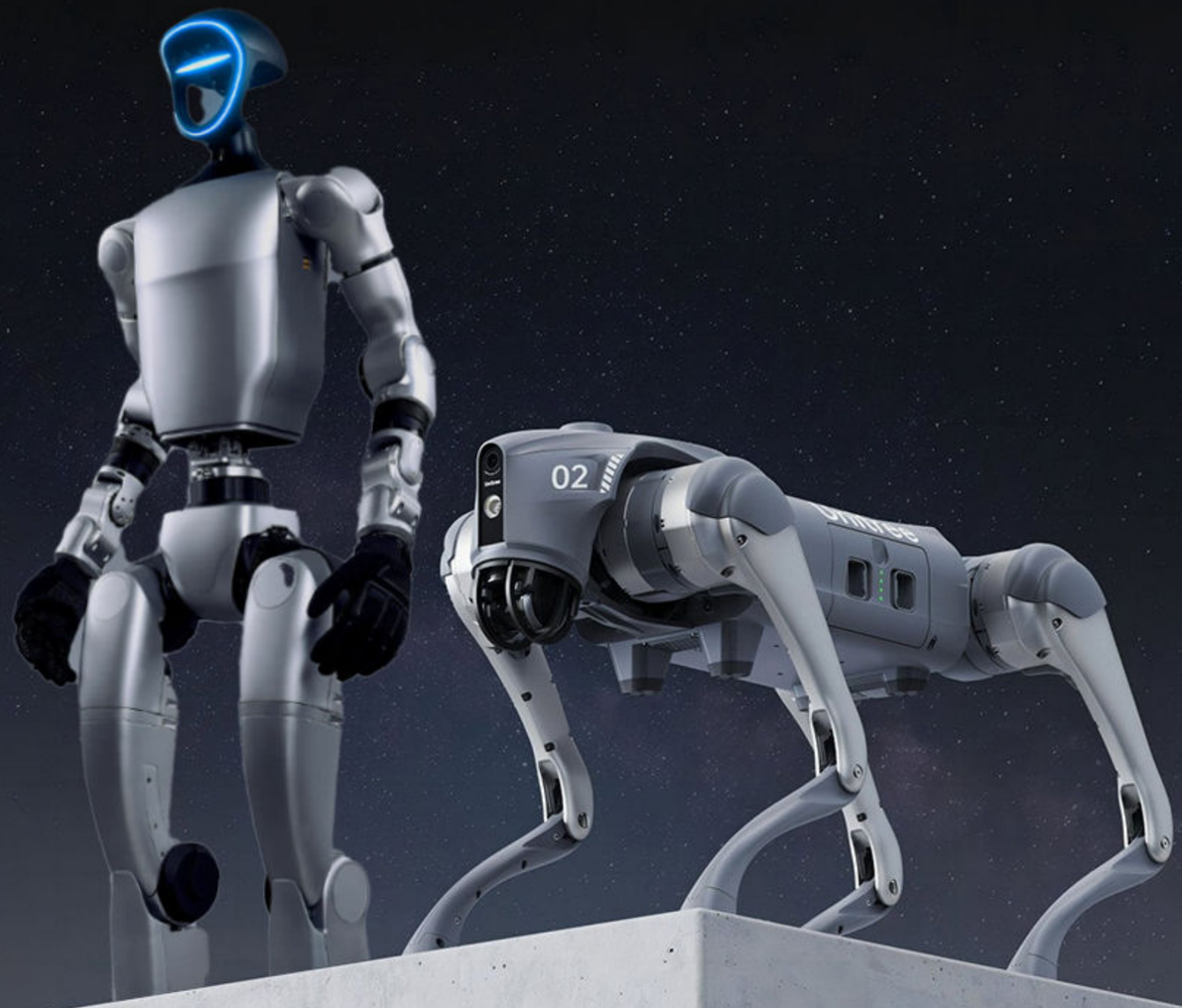
ROBOTS

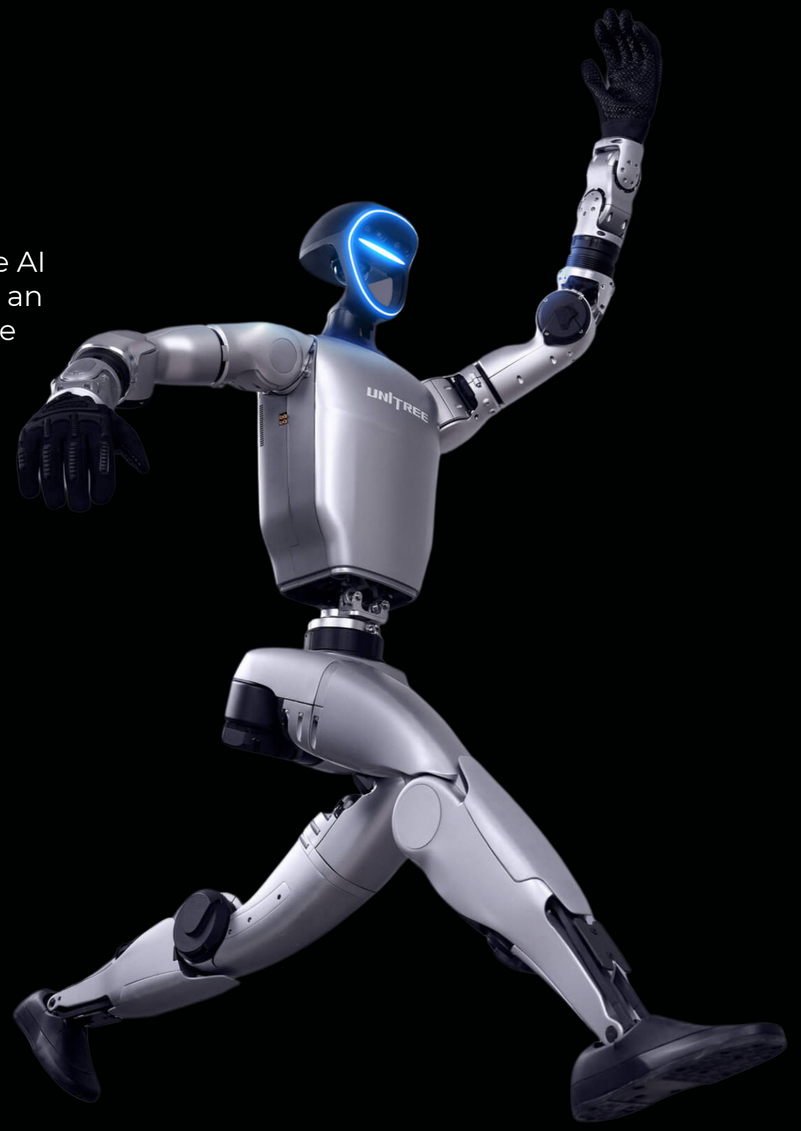
AI Robotic Companions
Innovation in Motion



Unitree G1

Humanoid agent AI avatar

Introducing the Unitree G1, a revolutionary robotic platform that combines cutting-edge AI technology with exceptional mechanical engineering. Designed for flexibility, it features an impressive range of joint movement facilitated by 23 to 43 motors, allowing it to navigate complex environments effortlessly.



Features

3D Lidar + Depth Camera

Moving Speed of 2m/s

Maximum Joint Torque 120 N.m

About 2 Hours Battery Life

Dex3-1 force Control Dexterous Hand

Weight About 35 kg

Height About 130 cm

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Two Variant Available

Mechanical Dimensions

Model	G1	G1 EDU
Height, Width and Thickness(Stand)	1320x450x200 mm	1320x450x200 mm
Height, Width and Thickness(Fold)	690x450x300mm	690x450x300mm
Weight (With Battery)	About 35kg	About 35kg+
Total Degrees of Freedom(Joint Freedom)	23	23 - 43
Single Leg Degrees of Freedom	6	6
Waist Degrees of Freedom	1	1+(Optional 2 additional waist degrees of freedom)
Single Arm Degrees of Freedom	5	5
Single Hand Degrees of Freedom	/	7(Optional Force control of three-fingered hand)+2(Optional 2 additional wrist degrees of freedom) *Three-fingered dexterous hand Dex3-1 Parameter: The thumb has 3 active degrees of freedom; the index finger has 2 active degrees of freedom; the middle finger has 2 active degrees of freedom. **Dex3-1 can optionally be installed with tactile sensor arrays
Joint output bearing	Industrial grade crossed roller bearings (high precision, high load capacity)	Industrial grade crossed roller bearings (high precision, high load capacity)
Joint motor	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor,better response speed and heat dissipation)	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor,better response speed and heat dissipation)

Mechanical Dimensions

Model	G1	G1 EDU
Maximum Torque of Knee Joint(1)	90N.m	120N.m
Arm Maximum Load(2)	About 2Kg	About 3Kg
Calf + Thigh Length	0.6M	0.6M
Arm Span	About 0.45M	About 0.45M
Extra Large Joint Movement Space	Waist joint: Z±155° Knee joint: 0~165° Hip joint: P±154°, R-30~+170°, Y±158°	Waist joint: Z±155°, X±45°, Y±30° Knee joint: 0~165° Hip joint: P±154°, R-30~+170°, Y±158° Wrist joint: P±92.5°, Y±92.5°

Accessories

High Computing Power Module	/	NVIDIA Jetson Orin
Smart Battery (Quick Release)	9000mAh	9000mAh
Charger	54V 5A	54V 5A
Manual Controller	YES	YES

Electrical Characteristics

Model	G1	G1 EDU
Full Joint Hollow Electrical Routing	YES	YES
Joint Encoder	Dual encoder	Dual encoder
Cooling System	Local air cooling	Local air cooling
Power Supply	13 string lithium battery	13 string lithium battery
Basic Computing Power	8-core high-performance CPU	8-core high-performance CPU
Sensing Sensor	Depth Camera+3D LiDAR	Depth Camera+3D LiDAR
4 Microphone Array	YES	YES
5W Speaker	YES	YES
WiFi 6, Bluetooth 5.2	YES	YES

Others

Battery Life	About 2h	About 2h
Upgraded Intelligent OTA	YES	YES
Secondary Development(3)	/	YES

Unitree H1

Unitree’s first universal humanoid robot

The Unitree H1 is an advanced humanoid robot designed to combine cutting-edge AI with practical capabilities. Equipped with dexterous manipulators, precise force control, and impressive movement range,

Features

3D Lidar + Depth Camera

Unitree M107 Joint Motor

Moving Speed of 3.3 m/s

Maximum Torque at Joints 360 N.m

Peak Torque Density 189N.m/Kg

Battery Capacity: 864Wh, Quickly Replaceable

Height About 180cm, Weight About 47kg

Click here to know more

Unitree H1 Parameter

Detailed Features

Model	H1
Key Dimensions	(1520+285)mm × 570mm × 220mm
Thigh and Calf Length	400mm × 2
Total Arm Length	338mm × 2
DOF of Each Leg	5(Hip×3 + Knee×1 + Ankle×1)
DOF of Each Arm	4(Expandable)
Total Weight	About 47kg
Joint output bearing	Industrial grade crossed roller bearings (high precision, high load capacity)
Core Joint motor	Low inertia high-speed internal rotor PMSM(permanent magnet synchronous motor,better response speed and heat dissipation)
Ultimate Torque of Joint Unit	Knee Torque About 360N.m, Hip Joint Torque About 220N.m, Ankle Torque About 59N.m, Arm Joint Torque About 75N.m
Mobility	Moving speed of 3.3m/s(world record), Potential mobility > 5m/s
Battery	Battery capacity 15Ah(0.864KWh), Max Voltage 67.2V
Control and Perception Computing Power	Standard configuration: Intel Core i5(Platform Function) ,Intel Core i7(User Development) Optional Configuration: Intel Core i7 or Jetson Orin NX
Sensor Configuration	3D LIDAR + Depth Camera

Unitree Go2

New Creature of Embodied AI

The Unitree Go2 is a next-generation quadruped robot designed for advanced mobility, adaptability, and AI-powered functionality. Equipped with Unitree's proprietary 4D LIDAR technology, it provides ultra-wide 360°x90° recognition, enabling precise navigation across various terrains with minimal blind spots.

Features

3D LIDAR L1

ISS2.0 Intelligent Side-follow System

Maximum Running Speed 5m/s

Peak Joint Torque Approx. 45N.m

Wireless Module: Wi-Fi6/Bluetooth/4G

Ultra-long battery Endurance: Approx. 2h—4h

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Three Variant Available

Detailed Features

Model	AIR	PRO	EDU
Dimension of standing	70x31x40cm	70x31x40cm	70x31x40cm
Dimension of crouching	76x31x20cm	76x31x20cm	76x31x20cm
Weight (With Battery)	About 15kg	About 15kg	About 15kg
Material	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic
Voltage	28V~33.6V	28V~33.6V	28V~33.6V
Working maximum power	About 3000W	About 3000W	About 3000W
Payload	≈7kg MAX ~ 10kg	≈8kg MAX ~ 10kg	≈8kg MAX ~ 12kg
Speed	0 ~ 2.5m/s	0 ~ 3.5m/s	0 ~ 3.7m/s (MAX ~ 5m/s)
Max Climb Drop Height	About 15cm	About 16cm	About 16cm
Max Climb Angle	30°	40°	40°
Basic Computing Power	/	8-core High-performance CPU	8-core High-performance CPU

Detailed Features

Model	AIR	PRO	EDU
Max Joint Torque	/	About 45N.m	About 45N.m
Aluminum knee joint motor	12 set	12 set	12 set
Range of Motion	body: -48~48° thigh: -200°~90° shank: -156°~-48°	body: -48~48° thigh: -200°~90° shank: -156°~-48°	body: -48~48° thigh: -200°~90° shank: -156°~-48°
Material	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic
Intra-joint circuit (knee)	YES	YES	YES
Joint Heat Pipe Cooler	YES	YES	YES
Joint Heat Pipe Cooler	YES	YES	YES
Wireless Vector Positioning Tracking Module	NO	YES	YES
HD Wide-angle Camera	YES	YES	YES
Foot-end force sensor	NO	NO	YES
Basic Action	YES	YES	YES
Auto-scaling strap	NO	YES	NO
Upgraded Intelligent OTA	YES	YES	YES
RTT 2.0 Pictures Transaction	YES	YES	YES

Detailed Features

Model	AIR	PRO	EDU
Graphical programme	YES	YES	YES
Front lamp	YES	YES	YES
WiFI6 with Dual-band	YES	YES	YES
Bluetooth 5.2/4.2/2.1	YES	YES	YES
4G module	NO	YES	YES
Voice Function	NO	YES	YES
ISS 2.0 Intelligent side-follow system	NO	YES	YES
Wireless Vector Positioning Tracking Module	NO	YES	YES
Intelligent detection and avoidance	YES	YES	YES
Charging Pile Compatibility	NO	NO	YES
Secondary development	NO	NO	YES
High computing power module	NO	NO	NVIDIA Jetson Orin (optional) (40-100Topscomputing power)
Battery life	About 1-2h	About 1-2h	About 2-4h
Smart battery	standard (8000mAh)	standard (8000mAh)	long endurance (15000mAh)

Unitree Go2 W

Driving All Terrain

The Unitree Go2-W is an advanced quadruped robot designed for high agility, autonomy, and functionality. Tailored for industrial, educational, and research applications, it offers groundbreaking features such as real-time obstacle avoidance, versatile adaptability, and precision motion control.

Features

Super-wide-angle 3D LIDAR

7 Inch Pneumatic Tire

Maximum Running Speed 2.5m/s

Peak Joint Torque Approx. 45N.m

Wireless Module: Wi-Fi6/Bluetooth/4G

Battery Endurance: Approx. 1.5h—3h

Weight About 18kg

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Parameter Details

Detailed Features

Dimension of standing	70cm x 43cm x 50cm
Weight (with battery)	About 18kg
Voltage	33.6V
Payload	About 3kg
Speed	0~2.5m/s
Max Climb Drop Height	< 70cm
Max Climb Angle	35°
Basic Computing Power	8-core High-performance CPU
Aluminum knee joint motor	16
Max Joint Torque	About 45N.m
Tyres	7 Inch Pneumatic Tire
Super-wide-angle 3D LIDAR	YES
HD Wide-angle Camera	YES
Basic Action	YES
Upgraded Intelligent OTA	YES
APP Support	YES
Manual controller	YES
Front Lighting Lamp	YES
WIFI6&4G&Bluetooth	YES
Voice Function	YES
Secondary development	YES
Expansion Module	Standard 100Tops arithmetic module (Orin NX)
Battery Type	Long endurance(15000mAh)
Endurance	1.5-3h
Charger	Fast charge(33.6V 9A)

Unitree B2

Go Beyond the Limits

The Unitree B2 is an advanced industrial-grade quadruped robot, redefining capabilities in robotic automation. Engineered to enhance performance in diverse industrial applications, it offers exceptional speed, agility, and endurance.

Features

32 Wire Automotive-grade LiDAR

Max Running Speed 6m/s

Max Joint Torque About 360N.m

Longest Jump Distance 1.6m

Standing load: 120kg

Ultra Long Endurance 4-5 Hours

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Unitree B2 Parameter

Detailed Features

Size(Standing)	≈ 1098mm×450mm×645mm
Size(Lying Prone)	≈ 880mm×460mm×330mm
Weight	≈ 60kg Total weight (battery included)
Battery Performance	Battery capacity 45Ah(2250Wh), voltage 58V
Endurance Ability	Battery life 4-6h Walking without load > 5h, and the mileage > 20km Walking with 20kg load > 4h, and the mileage> 15km
Wheeled Foot	Optional
Load(Standing)	Max. 120kg
Load(Walking)	> 40kg
Continuous Stair Climbing	Stairs of 20~25cm
Climbing Ability	Climb up and down stairs of 40cm in forward direction
Operating Temperature	-20°c~ 55°c
Climbing Angle	> 45°
Running Speed	> 6m/s
Ingress Protection	IP67
Control and Perception	Standard Configuration: Intel Core i5 (Platform Function), Intel Core i7 (User Development) Optional Configuration: Intel Core i7 and Jetson Orin NX (Maximum up to 3 devices)
Ditch Jumping Width	0.5~1.2m
Max Jump Distance	> 1.6m
Sensing Sensor	3D LiDAR ×1 + Depth camera ×2 + Optical camera ×2 (Varies with different configurations)
External Interface	1000M-Base-Ethernet×4 USB3.0×4 12V×4 5V×1 24V×4 BAT×1

Loona

Meet Your Petbot

Loona is the ideal companion for families with kids, offering nonstop games, a lively personality, and smart AI interactions. Kids can ask questions, play, and even see their words come to life with AI-generated visuals, all controlled by simple voice commands for a fun and engaging experience.

Features

- Facial Recognition
- Intelligent AI
- Leading Security
- Endless Games
- Long Play
- Amazing Sensors

Add-ons Available

Loona charging dock

Click here to know more

Eilik

Fun Unique Passionate

Meet Eilik, the desktop companion robot designed to bring a touch of emotional intelligence to your daily life. Created by Energize Lab, Eilik isn't just a gadget; it's a delightful interactive companion that brightens up your home or workspace.

Features

- Dynamic Emotional States
- Interactive Fun
- Social Robot Play
- Time Assistant & Playfellow
- Endless Potential
- High-Quality Build

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