UNITREE G1 HUMANOID AGENT AI AVATAR

UNIREE

TO PROMOTE THE WORLD WITH SCIENCE AND TECHNOLOGY

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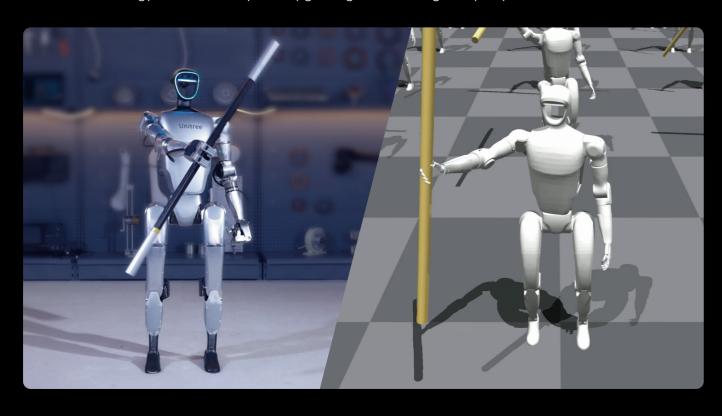
FLEXIBILITY BEYOND ORDINARY PEOPLE

Extra large joint movement angle space, 23~43 joint motors.



IMITATION & REINFORCEMENT LEARNING DRIVEN

Robotics technology accelerated by AI is upgrading and evolving every day.



FORCE CONTROL DEXTEROUS HAND, MANIPULATION OF ALL THINGS

Combined with force-position hybrid control, it is sensitive and reliable, and can simulate human hands to achieve precise operation of objects.

*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.



ROBOT WORLD MODEL, LET'S CREATE IT TOGETHER

UnifoLM (Unitree Robot Unified Large Model), create a new era of intelligence together.

*Open for everyone to co create and use in the future.



START THE AGENT NEW ERA



BODY SIZE VALUE

Weight About

Height About

35 kg

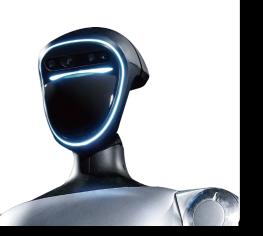
130 cm





360° DETECTION PERCEPTION

3D LIDAR +Depth Camera





TOTAL DEGREES OF FREEDOM

 \leq 43 pieces

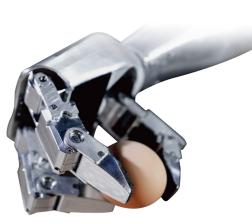




DEX3-1 FORCE CONTROL DEXTEROUS HAND

3-Finger Force Control Dexterous Hand

(Optional installation of tactile sensor arrays)





MAX JOINT TORQUE

120 N.m





BATTERY LIFE

About 2_h



Unitree G1 Parameter

Depth Camera • Intel RealSense

3D LIDAR •

LIVOX-MID360

Hollow Joint • Wiring of The Whole Machine

No external cable

Mobility •

Moving speed of 2m/s

Core Motion • Module

Max torque at joints 120 N.m



Noise Cancellation, Echo Cancellation

• Speaker
Stereo, 5W Power

• Extra Large Quick

Release Battery

Provide lasting power

Single Arm Degrees of Freedom

> Shoulder 3+Elbow 2 +Wrist 2(optional)

Single Leg
 Degrees of
 Freedom

Hip 3 + Knee 1 + Ankle 2

Model	G1	G1 EDU
Size (Stand)	1320mmx450mmx200mm	1320mmx450mmx200mm
Size (Fold)	690mmx450mmx300mm	690mmx450mmx300mm
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
Max Torque of Knee Joint [1]	90N.m	120N.m
Arm Max 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°
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
High Computing Power Module	/	NVIDIA Jetson Orin(optional)
Smart Battery (Quick Release)	9000mAh(421Wh)	9000mAh(421Wh)
Charger	54V 5A	54V 5A
Manual Controller	YES	YES
Battery Life	About 2h	About 2h
Upgraded Intelligent OTA	YES	YES
Secondary Development [3]	/	YES
Warranty Period [4]	8 months	1 year

^[1] The maximum torque of the joint motors of the whole machine is different. This is the maximum torque of the largest joint motor among them

^[2] The maximum load of the arm varies greatly under different arm extension postur

^[3] For more information, please read the secondary development manua

^[4] For more detailed warranty terms, please read the product warranty brochu

^[5] The above parameters may vary in different scenarios and configurations, please subject to actual situation.

^[6] The humanoid robot has a complex structure and extremely powerful power. Users are asked to keep a sufficient safe distance between

the humanoid robot and the humanoid robot. Please use with caution

^[7] If any change in the appearance of the product, please refer to the actual product.

^[8] Some sample functions on this page are still being developed and tested, and will be opened to users in the future.

^{*} 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.