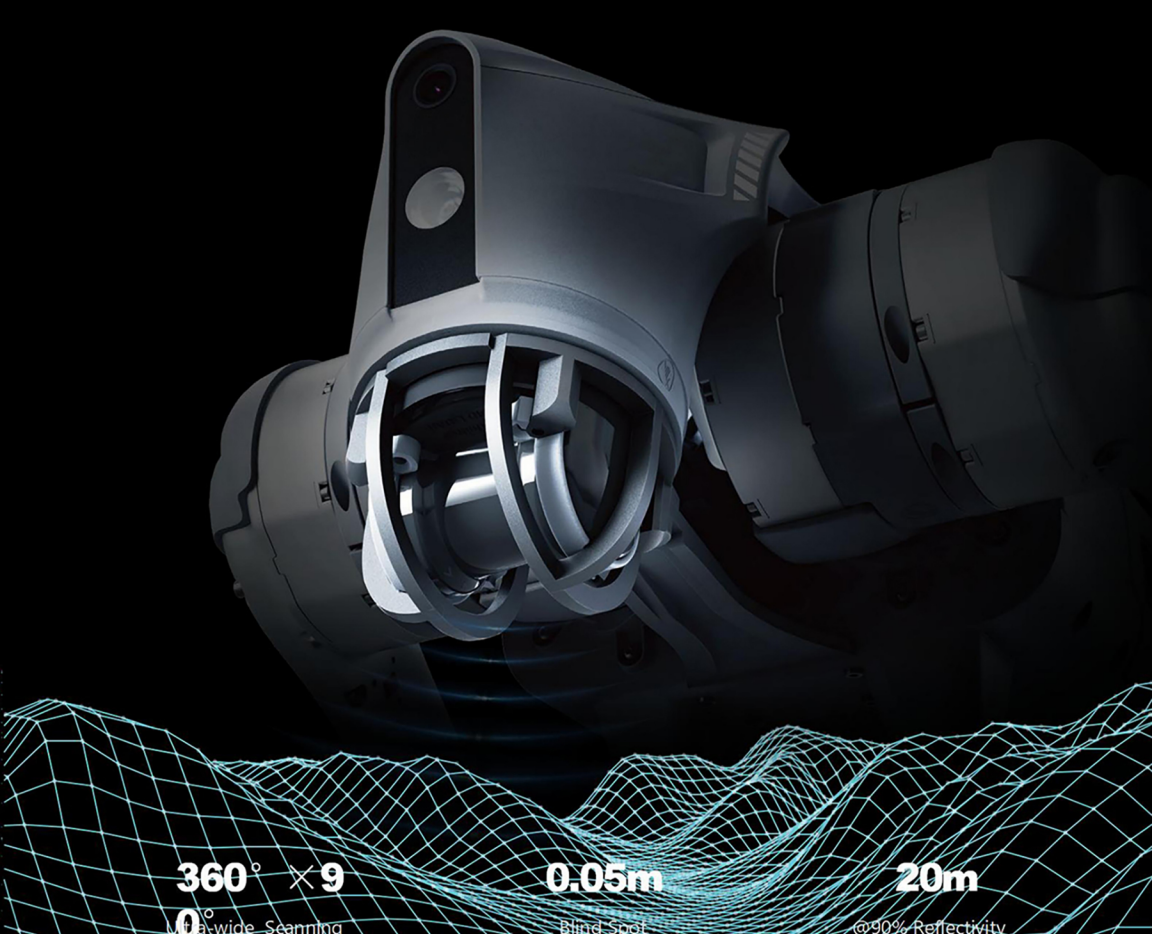
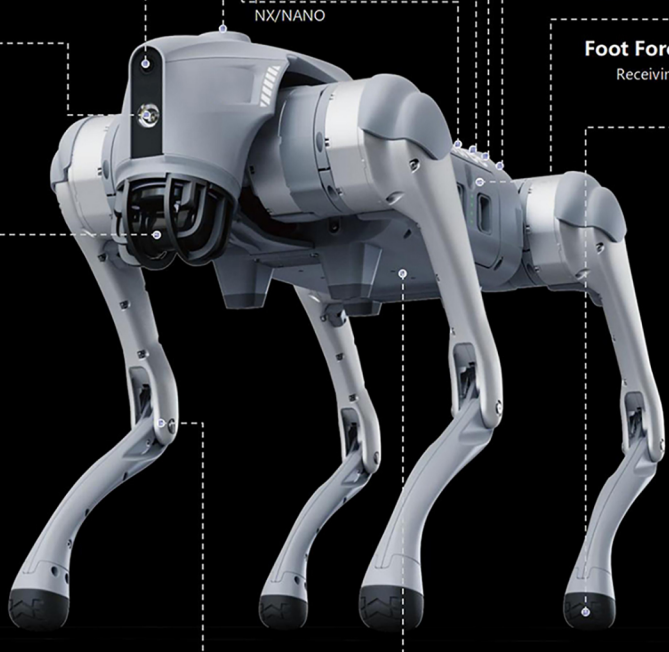
ASIMOV STORES

Standard Ultra-wide 4D LIDAR Upgrades Recognition System by 200%

Features with Unitree's self-developed 4D LIDAR L1 with 360° x90° hemispherical ultra-wide recognition, super small blind spot and a minimum detection distance as low as 0.05m, which makes realize all-terrain recognizing.



Your New Intelligent Friend



Tracking Module
Remote-controlled or automatic tracking

Front Camera
Image tansmission Resolution 1280*720 FOV 120 °
Ultra wide angle lens deliver rich clarity

Front Lamp
Brightly lights the way ahead

Intercom Microphone
Effective communication with no scenario restrictions

Self-retracting Strap
Easy to carry and load things

Powerful Core
·Motion controller High-performance ARM processor
·Improved AI algorithm processor External ORIN NX/NANO

Hardware Upgrade
·3D LIDAR
·4G ESIM Card
·WiFi6 with Dual-band
·Bluetooth 5.2 for stable connection and remote control

Smart Battery
Standard 8000m Ah battery
Long-endurance 15000m Ah battery
Protection from over-temp, overcharge and short-circuit

Foot Force Sensor
Receiving foot perception in real time

4D LiDAR L1
360°*90° omnidirectional ultra-wide-angle scanning allows automatic avoidance with small blind spot and stable operation

12 Knee Joint Motors
Strong and powerful Beautiful and simple
Brandy new visual experience

Speaker for Music Play
listen to music as your pleasure

New Intelligence

Intelligent Side-follow System 2.0

By adopting the new wireless vector positioning and control technology, the positioning accuracy is technically upgraded by 50%, the remote control distance is over 30m[1], and combined with the optimised obstacle avoidance strategy, it can make the robot better traverse complex terrain.

[1] In open spaces with no shelter

Motor performance enhanced by 30%

Go2 boasts a peak joint torque of 45N.m[2], a new internal trace connecting technique, and heat pipe coolers to de- crease temperature effectively.

[2] The maximum torque in the table refers to the maximum torque of the largest joint motor; the actual maximum torque varies for the 12 joint motors.

Battery capacity and endurance upgraded by 150%

Go2 is equipped with a battery capacity increased to 8,000mAh, as a 15,000mAh ultra-long life battery is option- al, and a voltage increased to 28.8V to improve motor effi- ciency, power and stability.

Various actions and poses

Go2 boasts a variety of poses such as jumping, stretching, shaking hands, cheering, pouncing, and sitting down.

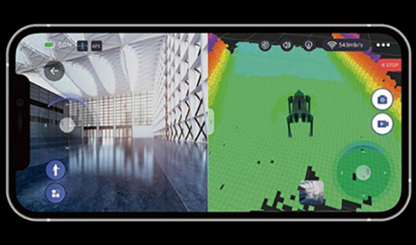
Intelligent Interaction

Intelligent Avoidance
Precise and Agile

Equipped with 4D LiDAR L1, the robodog de- tects, captures and draws the 3D real world for user.

Graphical Programming
Simple Yet Smarter

Optimise the graphical programming function, make it easy to complete the program design by simple drag, drop and connection.Make pro- gramming beginners easy to start and innovate.



Hd Picture Quality
Real-time and Stable [1]

A new App realizes HD image transmission and real-time remote monitor.Built-in 4G and eSIM enables more stable connection and remote control.

[1]Transformation and quality varies considerably in different network environments.

OTA Upgrades
Keep Improving and Evolving to be Smarter

With user authorisation, the robot automatically connects to a cloud-based OTA service to up- grade its own programs to continuously im- prove the user experience.

Extensions

XT16 LIDAR

Model	XT16
Size (Without	Φ100.0 / 103.0 mm*76mm
Bracket) Voltage	9-36V DC
Range	905nm
Laser Wavelength	Horizontal 360°, Vertical 30°
Fov	（-15°~+15°）

MID360 LIDAR

Model	MID-360
Size (without	65mm*65mm*60mm 9-27V DC
bracket) Voltage	905nm
range	Horizontal 360°， Vertical-7°~52°
Laser wavelength	
FOV	

Depth Camera

Model	D435i
Size	124mm*29mm*26mm
Min Depth Distance	0.105m
Depth Image Resolution	1280*720 @ 30fps ; 848*480 @ 90 fps
Depth Field Of View	86° * 57° （±3°）

Docking Station

Model	Orin Nano 8GB、Orin NX 16GB
Voltage range	16-60V DC
Computing power	Nano supports up to 40 Tops NX supports up to 100 Tops USB3.0-Type A X1
Expansion interface	USB3.0-Type C X1、USB2.0-Type C X1 Gigabit Ethernet port (standard RJ45) X2 100Gb Ethernet (GH1.25-4PIN) X1 M8 Air Plug Interface X1

D1 Servo Mechanical Arm

Model	D1
Weight	About 2.37kg 6
Degree Of	About 500g
Freedom	670mm (with jaws)
Playload	
Max Arm Positioning Accuracy	About 0.2 cm
Power Requirement	24V 2.5A (MAX 5A)
Interface Motor	DC5.5-2.1
Type Power	Servo 60W
Control Interface	Control communication interface RJ45 (ETH)

Remote Controller (screen+cameras)

Number of cameras	2
Camera	1920x1080
Resolution	2.4GHz
Wireless	30W
frequency	30W
Searchlight	Red and blue sharp-flash
Power Horn	MK15
power	
Alarm light	