Unitree Go2

New Creature of Embodied Al

New and Improved Returning with Glory

Infinite Revolution



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

Go2 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 Go2 realize all-terrain recognizing.



360°×90°

Ultra-wide Scanning

Effective Frequency

0.05m

Blind Spot (Radar accuracy decreases at close range detection)

21600 points/s 43200 points/s

Frequency of Sample

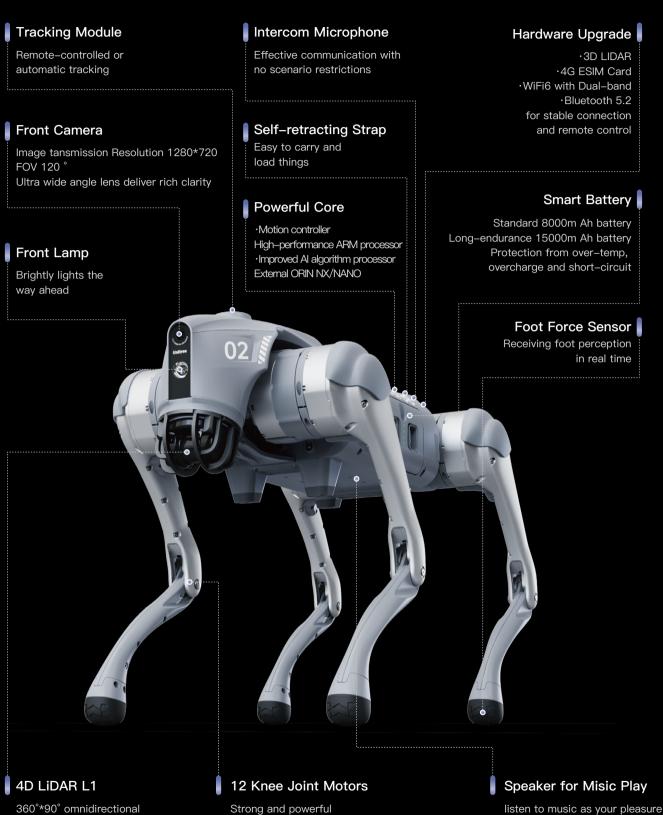
20m

@90% Reflectivity

100Klux Anti-highlight Protection

*Laser Safety Class: Class 1(IEC60825-1:2014) Laser Safety

Your New Intelligent Friend



ultra-wide-angle scanning allows automatic avoidance with small blind spot and stable operation

Beautiful and simple Brandy new visual experience

New Intelligence—Unitree Go2



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 decrease 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 optional, and a voltage increased to 28.8V to improve motor efficiency, 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

Have great fun with the APP



Intelligent Avoidance Precise and Agile

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



Hd Picture Quality Real-time and Stable 11

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.

<	Program	
 e Loop ♀ Light ♂ Pose 	Repeat 1 line X Squar 1 l Minimum 0 • X Squar 1 1	

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 programming beginners easy to start and innovate.

45%

OTA Upgrades

Keep Improving and Evolving to be Smarter

With user authorisation, the robot automatically connects to a cloud-based OTA service to upgrade its own programs to continuously improve the user experience.



Parameters

Mechanical	Туре	AIR	PRO	EDU	
han	Stand Height		70×31×40cm		
	Weight (With Battery)		About 15kg		
& E	Material	Aluminium	ring plastic		
Electron	Voltage				
ron	Peaking Capacity				
	Payload	≈7kg (MAX ~ 10kg)	≈8kg (MAX ~ 10kg)	≈8kg (MAX ~ 12kg)	
Pert	Speed	0~2.5m/s	0~3.5m/s	0~3.7m/s (MAX~5m/s)	
form	Max Climb Drop Height	About 15cm	About	t 16cm	
Performance	Max Climb Angle	30°	4	40°	
ď	Basic Computing Power	0	8-core High-pe	erformance CPU	
	Peak Joint Torque [1]	0	About	45N.m	
٦C	Range of motion	Body: -48~48°	Thigh: -200°~90° S	Shank: -156°~-48°	
Joint	Intra–joint circuit (knee)				
	Joint Heat Pipe Cooler		•	•	
Fo	Super-wide-angle 3D LIDAR	•		•	
Force	Wireless Vector Positioning Tracking Module	0		•	
Sensor	HD Wide–angle Camera			•	
sor	Foot-end force sensor	0	0	•	
	Basic Action	•	•	•	
	Auto-scaling strap	0	•	0	
	OTA upgrades	\bullet		•	
	RTT2.0 Image transmission	•	•	•	
л	Graphical programme	\bullet	•	•	
Feature	Front lamp		•	•	
lre L	WiFi6 with Dual-band	•	•	•	
_ist	Bluetooth 5.2/4.2/2.1	•	•	•	
	4G	0	•	•	
	Voice Function [2]	0	•	•	
	ISS 2.0	0	•	•	
	Intelligent detection and avoidance	•	•	•	
	Charging Pile Compatibility	0	0	•	
	Secondary development [3]	0	0	•	
4	Manual controller	Optional		Standard	
Accessories	High computing power modular	0		Optional Nvidia Jetson Orin	
SSO	Smart battery	Standard (8000mAh)		Long endurance (15000mAh)	
ories	Endurance	About 1–2h		About 2–4h	
	Charger	Standard (3	3.6V 3.5A)	Fast charge (33.6V 9A)	

*The above parameters may vary in different scenarios and configurations, please subject to actual situations. If any change in the appearance of the product, please refer to the actual product.

[1] 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.
[2] Voice functions include offline voice interaction, commands, intercom and music play.
[3] For more information, please read the secondary development manual.

Extensions

LIDAR



Model	XT16
Size (Without Bracket)	Ф100.0 / 103.0 mm*76mm
Voltage Range	9-36V DC
Laser Wavelength	905mm
Fov	Horizontal 360°, Vertical 30° (–15°~+15°)

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°)

LIDAR



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

High Computing Power Module



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
Expansion interface	USB3.0–Type A X1
	USB3.0–Type C X2
	Gigabit Ethernet port (standard RJ45) X2
	100Gb Ethernet (GH1.25–4PIN) X1
	M8 Air Plug Interface X1



Compact Servo Arm



Remote Control with Screen 3 In 1



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



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