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

0.05m

Blind Spot

(Radar accuracy decreases at close range detection)

20m

@90% Reflectivity

Effective Frequency

21600 points/s 43200 points/s

Frequency of Sample

100Klux

Anti-highlight Protection

Your New Intelligent Friend

360°*90° omnidirectional

spot and stable operation

ultra-wide-angle scanning allows automatic avoidance with small blind

Tracking Module Intercom Microphone Hardware Upgrade Remote-controlled or Effective communication with ·3D LIDAR no scenario restrictions automatic tracking ·4G ESIM Card ·WiFi6 with Dual-band ·Bluetooth 5.2 for stable connection Self-retracting Strap Front Camera and remote control Easy to carry and Image tansmission Resolution 1280*720 load things FOV 120° Ultra wide angle lens deliver rich clarity Smart Battery **Powerful Core** Standard 8000m Ah battery ·Motion controller Long-endurance 15000m Ah battery High-performance ARM processor Front Lamp Protection from over-temp, ·Improved AI algorithm processor overcharge and short-circuit External ORIN NX/NANO Brightly lights the way ahead Foot Force Sensor Receiving foot perception in real time 4D LiDAR L1 12 Knee Joint Motors Speaker for Music Play

Strong and powerful Beautiful and simple

Brandy new visual experience

listen to music as your pleasure

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 [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.



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.



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

Stand Height 70×31×40cm About 15kg About 15kg About 15kg About 3000W About 400W About 15cm About 16cm About 16cm About 16cm About 16cm About 16cm About 45Nm About 3000W About 45Nm About 3000W About 45Nm About	Mech	Туре	AIR	PRO	EDU	
Meterial Multiple			AIR		LDU	
Meterial Multiple	anic	-				
Per	<u>a</u> 8	· · · · · · · · · · · · · · · · · · ·				
Payload \$7kg (MAX ~ 10kg) \$8kg (MaX ~ 10						
Payload \$7kg (MAX ~ 10kg) \$8kg (MaX ~ 10	ectro		28V~33.6V			
Poem	Ŋ	Peaking Capacity		About 3000W		
Peak Joint Torque (1) O	T	Payload	≈7kg (MAX ~ 10kg)	≈8kg (MAX ~ 10kg)	≈8kg (MAX ~ 12kg)	
Peak Joint Torque (1) O	erfo	Speed	0~2.5m/s	0~3.5m/s	0~3.7m/s (MAX~5m/s)	
Peak Joint Torque (1) O	orm;	Max Climb Drop Height	About 15cm	Abou	t 16cm	
Peak Joint Torque (1) O	anc	Max Climb Angle	30°		40°	
Range of Motion	Ф	Basic Computing Power	0	8-core High-p	erformance CPU	
Topic		Peak Joint Torque [1]	0	About	About 45N.m	
Topic Joint Heat Pipe Cooler	Jo	Range of Motion	Body: -48~48°	Thigh: -200°~90°	Shank: -156°~-48°	
Super-wide-angle 3D LDAR	int	Intra-joint Circuit (knee)	•	•	•	
Total Foot		Joint Heat Pipe Cooler	•	•	•	
Total Foot	Fo	Super-wide-angle 3D LIDAR	•	•	•	
HD Wide-angle Camera	rce :	Wireless Vector Positioning Tracking Module	0	•	•	
Basic Action	Sen		•	•	•	
Auto-scaling Strap	sor	Foot-end Force Sensor	0	0	•	
OTA Upgrades		Basic Action	•	•	•	
RTT2.0 Image Transmission		Auto-scaling Strap	0	•	0	
Graphical Programme		OTA Upgrades	•	•	•	
Front Lamp		RTT2.0 Image Transmission	•	•	•	
Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection and Avoidance Charging Pile Compatibility Secondary Development [3] Handheld Controller Docking Station Smart Battery Endurance About 1–2h Secondary Development Standard Optional Nvidia Jetson Orin About 2–4h	-	Graphical Programme	•	•	•	
Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection and Avoidance Charging Pile Compatibility Secondary Development [3] Handheld Controller Docking Station Smart Battery Endurance About 1–2h Secondary Development Standard Optional Nvidia Jetson Orin About 2–4h	eatu	Front Lamp		•	•	
AG	ıre l	WiFi6 with Dual-band	•	•	•	
Voice Function [2]	ist	Bluetooth 5.2/4.2/2.1	•	•	•	
ISS 2.0		4G	0	•	•	
Intelligent Detection and Avoidance Charging Pile Compatibility Secondary Development [3] Handheld Controller Docking Station Smart Battery Endurance Ontional Optional Standard Optional Optional Nvidia Jetson Orin Standard (8000mAh) Long endurance (15000mAh) About 2-4h		Voice Function [2]	0	•	•	
Charging Pile Compatibility Secondary Development [3] O Handheld Controller Docking Station Smart Battery Endurance O Charging Pile Compatibility O O O O O O O O O O O O O		ISS 2.0	0	•	•	
Secondary Development [3] Handheld Controller Docking Station Smart Battery Endurance Optional Optional Optional Optional Optional Nvidia Jetson Orin Standard (8000mAh) Long endurance (15000mAh) About 2-4h		Intelligent Detection and Avoidance	•	•	•	
Handheld Controller Optional Standard Docking Station Optional Nvidia Jetson Orin Smart Battery Standard (8000mAh) Long endurance (15000mAh) Endurance About 1–2h About 2–4h		Charging Pile Compatibility	0	0	•	
Docking Station Optional Nvidia Jetson Orin Smart Battery Standard (8000mAh) Long endurance (15000mAh) Endurance About 1–2h About 2–4h		Secondary Development [3]	0	0	•	
	Accessories	Handheld Controller	Optional		Standard	
		Docking Station	0		Optional Nvidia Jetson Orin	
		Smart Battery	Standard (8000mAh)		Long endurance (15000mAh)	
		Endurance	About 1–2h		About 2–4h	
Standard (33.6V 3.5A) Fast charge (33.6V 9A)		Charger	Standard (33.6V 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.

^{*} 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.

^[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

XT16 LIDAR



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

MID360 LIDAR



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

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
Expansion interface	USB3.0-Type A X1
	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
Degree Of Freedom	6
Playload	About 500g
Max Armspan	670mm (with jaws)
Repeated Positioning Accuracy	About 0.2 cm
Power Requirement	24V 2.5A (MAX 5A)
Interface	DC5.5-2.1
Motor Type	Servo
Power	60W
Control Interface	Control communication interface B.I45 (FTH)

Remote Controller (screen+cameras)



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



Unitree Robotics

Web: unitree.com.tr Tel: 0216 652 2300 Email: info@prosmt.com







@UnitreeTurkiye