UNITREE Go2 Intelligence in Motion

Lead the way



Standard ultra-wide 4D LiDAR Confident navigation across any terrain

Go2 is equipped with advanced 4D lidar L1, delivering 360° x 90° hemispherical scanning for exceptional coverage and minimal blind spots. With a detection range starting at just 0.05m, it accurately detects obstacles and adapts to varied terrain.



Scanning Field of View

360°×90°

Ultra-wide Scanning

Operating Rate

21600 points/s 43200 points/s

Effective Frequency

Min Detection Distance

0.05m

Blind Spot

Sampling Rate

Frequency of Sample

Max Detection Range

20m

at 90% Reflectivity

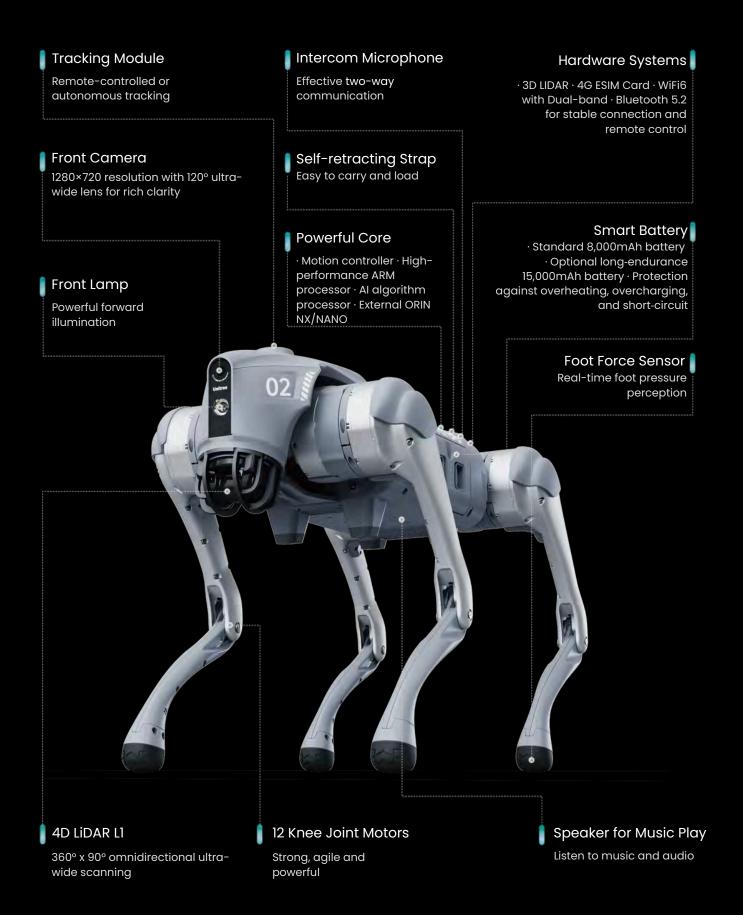
Anti Glare Protection

100Klux

Stable Detection

^{*} Laser Safety: Class 1 (IEC 60825-1:2014) Certified. * Radar accuracy decreases at closer range detection

Your new intelligent companion



Engineered for more



Intelligent Side-follow System 2.0

With wireless vector positioning, Go2 follows alongside the user with precise and stable movement. Obstacle detection enables smooth navigation through complex terrain, with remote control capability extending beyond 30 metres in open areas.



High-Performance Motion

Go2 delivers powerful joint performance with up to 45N·m peak torque.* An internal wiring design and integrated heat pipe cooling system help maintain smooth, stable operation under demanding conditions.

* The maximum torque in the table refers to the largest joint motor; actual maximum torque varies across the 12 joint motors.



Extended Power and Endurance

A high-capacity 8,000mAh battery comes as standard, with an optional ultra-long life 15,000 mAh pack for extended use. Operating at 28.8 V, the system delivers efficient power output to support demanding applications and continuous mobility.



Various actions and poses

Go2 performs a wide range of dynamic actions including jumping, stretching, shaking hands, cheering, pouncing, and sitting, making it ideal for both practical and interactive scenarios.

Control at your fingertips

Use the app to control, monitor, and customise Go2 in real time.



Smart Obstacle Avoidance

Go2 uses 4D lidar to detect and map its surroundings in real time, enabling smooth and agile movement. It navigates complex spaces with confidence and precision.



Live HD Monitoring

The app provides a real-time video feed with HD clarity. Built-in 4G and eSIM ensure stable connectivity* for remote viewing and control.

*Performance may vary depending on network conditions.



Design Routines Visually

Build custom routines using a simple drag-and-drop interface. Intuitive and accessible, it's built to help anyone get started quickly.



Automatic OTA Updates

With user approval, Go2 installs updates automatically via a secure cloud connection, delivering new features and ongoing improvements.



Specifications

	ical	, ·	AIR	PRO	EDU
Payload		Standing Height		70×31×40cm	
Payload	ectr				
Payload	al / E		Aluminiur		ering plastic
Payload	anic	Voltage			31
Payload	/ech	Peaking Capacity		About 3000W	
Speed 0-2.5m/s 0-3.5m/s 0-3.7m/s (MAX-5m/s)		Payload	≈7kg (MAX ~ 10kg)	~8ka (MAX ~ 10ka)	≈8kg (MAX ~ 12kg)
Max Climb Drop Height			3 5		
Peak Joint Torque [1]	ance		· · · · · · · · · · · · · · · · · · ·		l
Peak Joint Torque [1]	form				
Peak Joint Torque [1]	Per				
Range of Motion Body: -48-48° Thigh: -200°-90° Shank: -156°48°					
Intra-joint Circuit (knee)	-				
Super-wide-angle 3D LIDAR	int	J	Bouy48~48	1111gn200°~90°	Stidtik150°~-48°
Super-wide-angle 3D LIDAR	OL		•	•	•
Wireless VectorPositioning Tracking Module HD Wide-angle Camera			•	•	•
Basic Action	٦		•	•	•
Basic Action	ensc	Wireless VectorPositioning Tracking Module	0	•	•
Basic Action	rce S	HD Wide-angle Camera	•	•	•
Auto-scaling Strap OTA Upgrades RTT2.0 Image Transmission Graphical Programme Front Lamp WiFi6 with Dual-band Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Options Station	Fo	Foot-end Force Sensor	0	0	•
STA Upgrades • • • • • • • • • • • • • • • • • • •		Basic Action	•	•	•
RTT2.0 Image Transmission Graphical Programme Front Lamp WiFi6 with Dual-band Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard		Auto-scaling Strap	0	•	0
Graphical Programme Front Lamp WiFi6 with Dual-band Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Optional Optional Nividia Istens Optional		OTA Upgrades	•	•	•
Front Lamp WiFió with Dual-band Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard		RTT2.0 Image Transmission	•	•	•
WiFi6 with Dual-band Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard Optional Nicidia Jesses Osion		Graphical Programme	•	•	•
Bluetooth 5.2/4.2/2.1 4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Optional Standard		Front Lamp	•	•	
4G Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Optional Optional Nuidia letson Onion	tures	WiFi6 with Dual-band	•	•	•
Voice Function [2] ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Optional Optional Nuidia letson Onion	Fear	Bluetooth 5.2/4.2/2.1	•	•	•
ISS 2.0 Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard Optional Nuidia letson Onion		4G	0	•	•
Intelligent Detection Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard Optional Nuidia letson Onion		Voice Function [2]	0	•	•
Charging Pile Compatibility Secondary Development [3] Handheld Controller Optional Standard Optional Nuidia letson Ovin			0	•	•
Secondary Development [3] O Optional Standard Postking Station Optional Optional Optional Nuidia letson Optional Optional Nuidia letson Optional Optional Nuidia letson Optional Optional Nuidia letson Optio					•
Handheld Controller Optional Standard Optional Optional Optional Optional Nuidia letson Optional Nuidia letson Optional Optional Nuidia letson Optional Nuidia					•
Docking Station Ontional Muidia leteon Orig		Secondary Development [3]			•
Docking Station Optional Nvidia Jetson Orin Smart Battery Standard (8000mAh) Endurance About 1-2h Standard About 2-4h		Handheld Controller	Opti	onal	Standard
Smart Battery Standard (8000mAh) Long-endurance (15000mAh) Endurance About 1-2h Standard About 2-4h	es	Docking Station			Optional Nvidia Jetson Orin
Endurance About 1-2h Standard About 2-4h	ssori	Smart Battery	Standard	(8000mAh)	Long-endurance(15000mAh
<u></u>	Acce	Endurance	About 1-2l	n Standard	About 2-4h
Charger (33.6V 3.5A) Fast charge (33.6V 9A)		Charger	(33.6V 3.5A)		Fast charge(33.6V 9A)

^{*}Specifications may vary depending on the scenario and configuration. Please refer to actual usage conditions.

*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.

 $[\]cite{Mathematical Points} \label{eq:mathematical Points} \cite{Mathematical Points} \cite{Mathemati$

^[3] For additional details, please refer to 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



Orin Nano 8GB、Orin NX 16GB
16-60V DC
Nano supports up to 40 Tops
NX supports up to 100 Tops
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

D1 Servo Mechanical Arm



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

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

NextGen Ri

w nextgenri.co.uk

T 0115 989 2760

E hello@nextgenri.co.uk



Official UK distributor for Unitree Robotics