



Unitree

PHOTO	MODEL	FUNCTION
	Go2W-U1	<ul style="list-style-type: none">•Standing size: 70cm x 43cm x 50cm•Weight (with battery): about 18kg•Movement speed: 0~2.5m/s•Tire: 7-inch pneumatic tire•Maximum climbing height: about 70cm•Blink motor: 16•Battery type: long battery life (15000mAh), battery life 2-4h•Warranty: 1 year for the whole machine•Dock with 40Tops computing power (Orin NX), including AI algorithm and technical support•Equipped with realsense D435i depth camera•Optional servo robot arm D1
	Go2W-U2	<ul style="list-style-type: none">•It has all the functions of the Go2-W standard version, but the computing power of the expansion dock is changed from 40Tops to 100Tops. That is, the Go2-W smart version has 100Tops computing power.•Equipped with realsense D435i depth camera•Optional servo mechanical arm D1
	Go2W-U3	<ul style="list-style-type: none">•Equipped with all functions of Go2-W Smart Edition•Equipped with realsense D435i depth camera•Equipped with 3D laser radar Lanwo Mid-360, including navigation algorithm and technical support•Optional servo mechanical arm D1
	Go2W-U4	<ul style="list-style-type: none">•Equipped with all functions of Go2-W smart version•Equipped with high-end 3D laser radar Hesai XT16, including navigation algorithm and technical support•Optional servo mechanical arm D1
	Go2W-U5	<ul style="list-style-type: none">•Possess all the functions of Go2-W flagship version•Dual-light gimbal: high-precision three-axis stabilization•Gimbal parameters: Angle jitter $\pm 0.01^\circ$•Controllable pitch rotation: $-90^\circ \sim +25^\circ$•Controllable horizontal rotation: $-270^\circ \sim +270^\circ$•Roll rotation: $-45^\circ \sim +45^\circ$•Thermal imaging sensor:•Resolution: 640x512•Band range: 8~14μm•Temperature measurement range: High gain $-20^\circ \sim +150^\circ\text{C}$•Low gain $50^\circ \sim +650^\circ\text{C}$•Temperature measurement accuracy: $-20^\circ \sim +150^\circ\text{C} (\pm 2^\circ\text{C})$•$50^\circ \sim +650^\circ\text{C} (\pm 5^\circ\text{C})$•Servo mechanical arm D1 is not optional•Go2-W inspection version is a hardware platform that supports customers' own secondary development. This platform is a standard platform: does not include customized services, does not include navigation and mapping services at the project site, does not include background software management platform, does not include project site survey and implementation services, etc.



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	Two-hand remote control	<ul style="list-style-type: none">•Charging voltage: 5V•Charging current: 2A•Frequency: 2.4GHz•Communication method: data transmission module, Bluetooth•Running time: 4.5h•Remote control distance: more than 100m
	Go2 Standard Battery	<ul style="list-style-type: none">•Product size: 120mm*80mm*182mm•Rated voltage: DC 29.6V•Charging limit voltage: DC 33.6V•Charging current: 3.5A•Rated capacity: 8000mAh, 236.8Wh•Implementation standard: IS 16046 (Part 2)/IEC 62133-2•Self-developed battery management system (BMS)•Functions: power display, battery storage self-discharge protection, balance charging protection, overcharge protection, overcharge protection, over-discharge protection, short circuit protection, battery load detection protection
	Go2 long-lasting battery	<ul style="list-style-type: none">•Product size: 120mm*80mm*182mm•Rated voltage: DC 28.8V•Charging limit voltage: DC 33.6V•Charging current: 9A•Rated capacity: 15000mAh, 432Wh•Implementation standard: IS 16046 (Part 2)/IEC 62133-2•Self-developed battery management system (BMS)•Functions: power display, battery storage self-discharge protection, balance charging protection, overcharge protection, overcharge protection, over-discharge protection, short circuit protection, battery load detection protection
	Go2 Standard Charger	<ul style="list-style-type: none">•Product size: 210mm*108mm*48.2mm•Input power: 100-240V~50/60Hz 4A 350VA•Output power: 34.0V, 3.5A, 119.0W•Standard battery charging time: 2h•Long-life battery charging time: 4h

	Go2 Fast Charger	<ul style="list-style-type: none"> •Product size: 210mm*108mm*48.2mm •Input power: 100-240V~50/60Hz 4A 350VA •Output power: 33.6V, 9.0A, 302.4W •Standard battery charging time: 0.8h •Long-life battery charging time: 1.5h
	Go2 foot end (1 pair, left/right)	Material: high-performance rubber + high-strength material
	Go2 charging station (with fast charging adapter)	<ul style="list-style-type: none"> •Charging voltage: 33.6V •Charging current: 9A •Working temperature: 5 °C~40°C •Storage temperature: 22 °C~28°C •Relative humidity: ≤ 95%
	Go2 expansion dock (computing power 40Tops)	<ul style="list-style-type: none"> •Power supply voltage range: 16V- 60V •2 Expansion interface: •1 USB3.0- Type A, •1 USB2.0 Type C, 1 USB3.0 Type C, •2 Gigabit Ethernet ports (standard RJ45), •1 100M Ethernet (GH1.25- 4PIN), •1 M8 aviation plug interface" •With 40Tops computing power

 A silver-colored Go2 expansion dock device, showing its front panel with various ports and connectors.	Go2 expansion dock (computing power 100Tops)	<ul style="list-style-type: none">• Power supply voltage range: 16V-60V• 2. Expansion interface:<ul style="list-style-type: none">• 1 USB3.0-Type A,• 1 USB2.0 Type C, 1 USB3.0 Type C,• 2 Gigabit Ethernet ports (standard RJ45),• 1 100M Ethernet (GH1.25-4PIN),• 1 M8 aviation plug interface"• With 100Tops computing power
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	MID360 LiDAR	<ul style="list-style-type: none">• Including metal protection frame, including technical support services• Including customized cables• Power supply voltage range: DC 9-27V• Laser wavelength: 905mm• FOV: 360° horizontally, -7°~52° vertically• Including metal protection frame, including technical support services• If Yushu's self-developed navigation algorithm is required, it must be used together with the Go2 expansion dock (computing power 100Tops)
	XT16 LiDAR	<ul style="list-style-type: none">• Including metal protection frame, including technical support services• Including customized cables• Power supply voltage range: DC 9-36V• Laser wavelength: 905mm• FOV: horizontal field of view 360°, vertical field of view 30° (-15°~+15°)• If Yushu's self-developed navigation algorithm is required, it must be used together with the Go2-W expansion dock (computing power 100Tops) <p>• Brand: Intel</p>
	Depth Camera	<ul style="list-style-type: none">• Model: realsense D435i• Including metal bracket• Including customized cables• Minimum depth distance: 40cm• Depth image resolution: 1280*720 @ 30fps; 848*480 @ 90 fps• Depth of field of view: 86° * 57° <p>• Degrees of freedom: 6</p>
		<ul style="list-style-type: none">• Load: 500g (ideal weight)• Maximum arm span• 495mm (excluding the length of the gripper, which may change slightly due to subsequent structural changes)• 620mm (including the length of the gripper, which may change slightly due to subsequent structural changes)"• Power requirement: 24V 2.5A (MAX 5A)• Interface: DC5.5-2.1

Servo Robot Arm D1

- Power: 60W
- Control interface: control communication interface RJ45 (ETH)
- Joint parameters
- $J_1 \pm 135^\circ$
- $J_2 \pm 90^\circ$
- $J_3 \pm 90^\circ$
- $J_4 \pm 135^\circ$
- $J_5 \pm 90^\circ$
- $J_6 \pm 135^\circ$
- Display device: 5.5-inch 1080P high-definition high-brightness LCD touch screen