		Small-Size Robot Dog			Large-Size Robot Dog			Robot Inspection (Rover)		Robot Railway Inspection
		Go1	Go2	Lite 3 ENV	B1	B2	X30 ENV	ARGUS 2023	SHIR-3000EX	RIIS-1005
MAIN PARAMETERS	Weight	13kg	15kg	13,7 kg	55kg	60kg	59kg	133 kg	301 kg	118kg
	Dimension	64.5×28×40cm	70×31×40cm	61×37×50cm	112×47×64cm	110×45×64cm	100×58×47cm	175×78×142 cm	100×91×102 cm	220×65×60 cm
	Material	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	High strength plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy, a little bit rubber&plastic cover	Aluminum alloy, Fiberglass (body)	Stainless steel 305	Aluminum alloy, and shell
	Working Temperature	5℃-35℃	5℃-35℃	0℃ ~40℃	-5℃ ~55℃	-20℃ ~55℃	-20℃ ~55℃	-25℃~55℃	-20℃~60℃	-20~45℃
	Protection Class	-	-	-	IP67 (IP68 optional)	IP67	IP67	IP65	IP66	IP55
	Explosion Proof (ATEX)	-	-	-	-	-	-	-	✓	-
MOTION PARAMETERS	Speed	18 km/h	18 km/h	9 km/h	4,5 km/h	21,5km/h	18km/h	6 km/h	3,6km/h	15km/h
	Payload	10 kg	12 kg	7,5 kg	80 kg	120 kg	85kg	18kg	50kg	-
	Handheld Controller	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Max Climb Drop Height	11 cm	16cm	15 cm	20 cm	25 cm	20cm	15 cm	-	-
	Max Climb Angle	35°	40°	40°	30°	40°	45°	15°	31°	40°
	Range of Motion	Hip lateral swing joint: -40~+40 °; Hip anterior swing joint: -218~+45 °; Knee joint:+24~+132 °	Body：-48~48° Thigh：-200°~90° Shank：-156°~-48°	HipX：-28°~28° HipY：-200°~20° Knee：25°~158°	-	-	HipX：-15°~30° HipY：15°~160° Knee：20°~145°	Vehicle equipped with wheels	Vehicle equipped with wheels	-
	Navigation Mode	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/ remote control	Autonomous moving/ manual/remote control	Trackless autonomous positioning navigation	Autonomous moving/ manual remote control
	Wireless Vector Positioning Tracking Module	✓	✓	✓	✓	✓	✓	✓	-	-
	Intelligent Detection and Avoidance	-	✓	✓	Optioanl	Optioanl	✓	✓	✓	✓
	Intelligent Side-follow System	✓	✓	✓	-	-	-	-	-	-
	Human Recognition	✓	✓	-	✓	✓	-	✓	✓	✓
	Foot Force Sensor	✓	✓	-	✓	✓	-	✓	-	-
	Wheeled Foot	-	-	-	Optional	Optional	-	✓	✓	-
BATTERY PARAMETERS	Battery Capacity	9000mAh	15000mAh	4400mAh	18000 mAh	45000 mAh	22400 mAh	2×120000mAh	35000 mAh	51000mAh
	Battery Voltage	22.2V	33.6V	28,8V	58V	58V	72V	12 V	48V	52V
	Endurance	1h	2-4h	1,5-2h	2-4h	4-6h	2,5-4h	10-12h	6h	4h
	Charging Time	1h	2h	1h	2h	3h	3h	8 h	6h	4h
	Auto charging	Optional	Optional	-	✓	✓	✓	✓	✓	Manual charging
	Charging Station	-	✓	✓	Optional	✓	✓	✓	Charging Pile	-
SYSTEM PARAMETERS	Perceptual controller	1 nano +(1Nano or NX)	Orin Nano 8GB/16GB	NVIDIA Jetson Xavier NX	Jetson Xavier NX×3	Nvdia Jetson Orin NX×1	8-core High-performance CPU	-	uno-2484 i7 industrial personal computer	MIC-770 industrial personal computer
	Basic Computing Power	2 nano +(1Nano or NX)	8-core High-performance CPU	8-core High-performance CPU+NX(Pro, LIDAR version)	CPU intel i5-1135G7	Intel Core i5*1,and Intel Core i7 *1	8-core High-performance CPU+pico 11(Pro version)	4 iMX6 computers (+ NVidia Jetson in each T9)	Background server (i7+16G)	I9-10900T/32G/500G/graphics card 1050TI
	Interface	3 HDMI ports, 1 Gigabit Ethernet port, 3 USB ports, 2 TYPE-C ports, and 1 integrated back interface	USB3.0 Type A X1, USB3.0 Type C X2, Gigabit Ethernet port (standard RJ45) X2, Gigabit Ethernet (GH1.25-4PIN) X1, M8 aviation plug interface X1	Type-C；USB3.0；HDMI；Ethernet；Input（5V/24V）	Power/USB 2.0/ETH Equipped with optional (gigabit network port×7, RS485×4, USBx5, CANx4)	1000M-Base-Ethernet×4, USB3.0×4, 12V×4, 5V×1, 24V×4, BAT×1	Ethernet; WiFi; USB2.0; USB3.0	1 Gigabit ethernet port, CAN interface, 1 USB 2.0 port (on Megatral board, connected to Navigator module), 2 USB 3.0 ports (on T9 computers)	-	USB、LAN
	Voice Function	-	✓	✓	-	-	-	✓	✓	✓
	4G Or 5G	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bluetooth 5.2/4.2/2.1	✓	✓	-	✓	✓	-	✓	-	-
	WiFi6 with Dual-band	-	✓	-	✓	✓	-	Optional	-	-
SENSORS	Lidar	Optional 2D or 3D	✓	✓	Optional for 3D	✓ (3D)	✓	-	✓	✓
	Radar 3D	Optional	✓	✓	✓	✓	✓	-	-	✓
	HD Wide-angle Camera	-	✓	✓	✓	✓	✓	PTZ camera with 20x zoom module and IR module	✓	-
	Smart robotic arm	Optional	Optional	-	✓	✓	✓	-	-	-
	Super Sensor System	5 set	1 set	5 set	5 set	4 set	5 set	-	-	-
	Image Transmission	✓	✓	✓	✓	✓	✓	✓	✓	✓