Jueying Lite3 Parameters

	Basic (Lite3)	Venture (Lite3V)	Pro (Lite3P)	LiDAR (Lite3L)
STANDING SIZE	610mm×370mm×406mm	610mm×370mm×445mm	610mm×370mm×445mm	610mm×370mm×503mm
NET.WEIGHT (WITH BATTERY)	12kg	12.2kg	12.7kg	13.7kg
DURATION	1.5h~2h	1.5h~2h	1.5h~2h	1.5h~2h
DISTANCE	5km	4km	3.4km	2.7km
SLOPE	40°	40°	40°	40°
STEPS' HIGHT	15cm	15cm	15cm	15cm
LOAD (continuous)	7.5kg	7kg	6.5kg	5kg
PERCEPTION	• front & rear auto-stop • object following	• front & rear auto-stop • object following	• front & rear auto-stop • object following • obstacle aviodence	• front & rear auto-stop • object following • obstacle aviodence • auto-navigation
INTERFACE	/	Ethernet Input (5V/12V/24V)	Type-C; USB3.0; HDMI; Ethernet; Input (5V/24V)	
SECONDARY DEVELOPMENT	/	Provide Urdf model for stimulation, SDK, API, perceptioin interface, and related documents.		

DEEP Robotics
云深处科技

Dedicated to the ultimate combination
of locomotion and intelligence to build a bright robotic future

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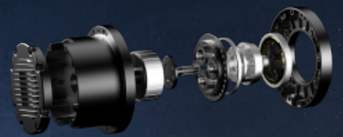
50% JOINT TORQUE INCREASED
STRONGER DRIVING FORCE

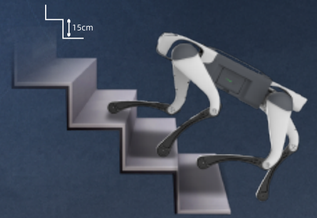
The proprietary high-torque joint drive module comes equipped with extremely high torque density, response bandwidth, and reversed transmission efficiency



- Continuous Max.load has increased 40%, up to 7.5kg
- Endurance doubled, continuous movement up to 90min & 5km

ALGORITHM UPGRADES
MORE AGILE AND RESPONSIVE

Stronger surmounting ability and greater maneuverability



- Realize challenging actions of jump over gaps, high jump, front flip
- climb steps up to 15 cm, almost the maximum height for any quadruped robot of similar size
- Other actions like back flip, twist dance & jump, wave hand, moon walk, self-right

INTERACTION SYSTEM UPGRADES

- Enhanced FPV image transmission, fewer lag errors
- Enhanced lights interaction, users are able to know robot' s state in real-time

SAFER & DIVERSE PERCEPTION

Support front & rear auto-stop, recognition, object following, obstacle avoidance, and auto-navigation.

* These functions are only available for particular versions

INDUSTRIAL-LEVEL CONTROL SYSTEM
WITH TRIPLE THE COMPUTING POWER

Industrial IMU

A comprehensive upgrades on stability and computing

- Triple the overall computing power
- With real-time communication, the control frequency up to 1kHz
- Features an industrial-level real-time control system with deeply optimized kernel

EXPANSION EVOLUTION

Additional applicable module design for unlimited modifications

- Open modular structure & interfaces, support RTK, 5G, AI computer, edge processor and sensors
- Support advanced perceptional development interface (SDK API)
- Supports depth-devlopment of auto-navigation, obstacle aviodnece, visual positioning, 3D mapping with Lidar & depth camera