Lite3 Quadruped Robot

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Lite3 Video

Advantages of Lite3

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

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Advantages of Lite3

EXPANSION EVOLUTION

Additional applicable module design for unlimited modifications

Support advanced perceptional development interface (SDK API)

Open modular structure & interfaces, support RTK, 5G, AI computer, edge processor and sensors

Supports depth-devlopment of auto-navigation, obstacle aviodnece, visual positioning, 3D mapping with Lidar & depth camera

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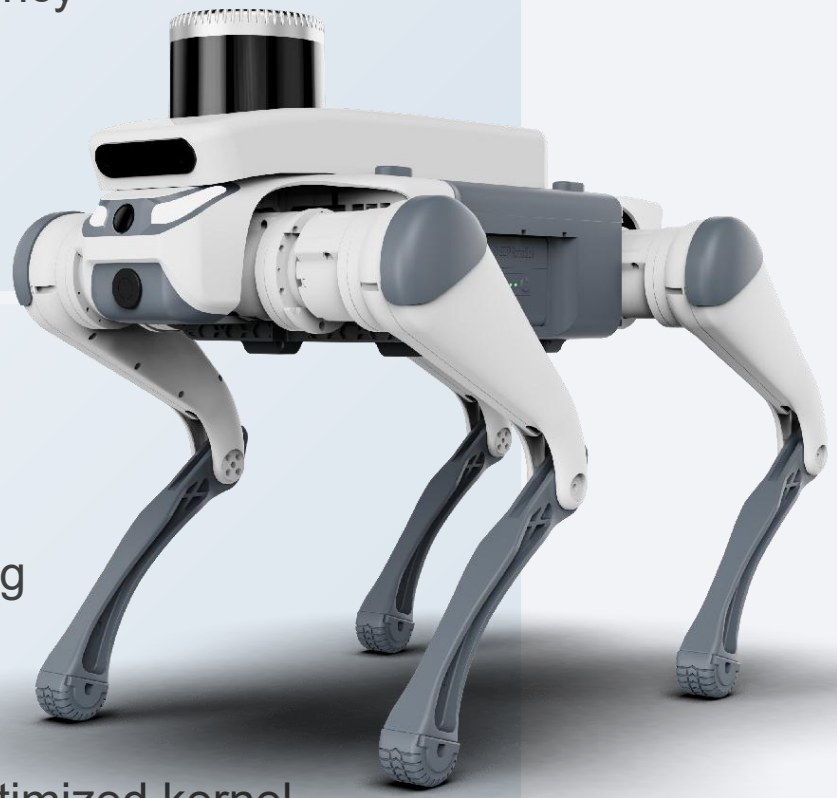
Advantages of Lite3

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



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

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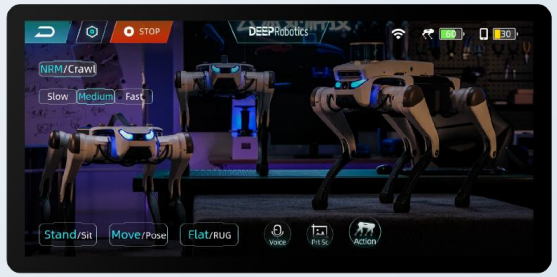
Advantages of Lite3

INTERACTION SYSTEM UPGRADES

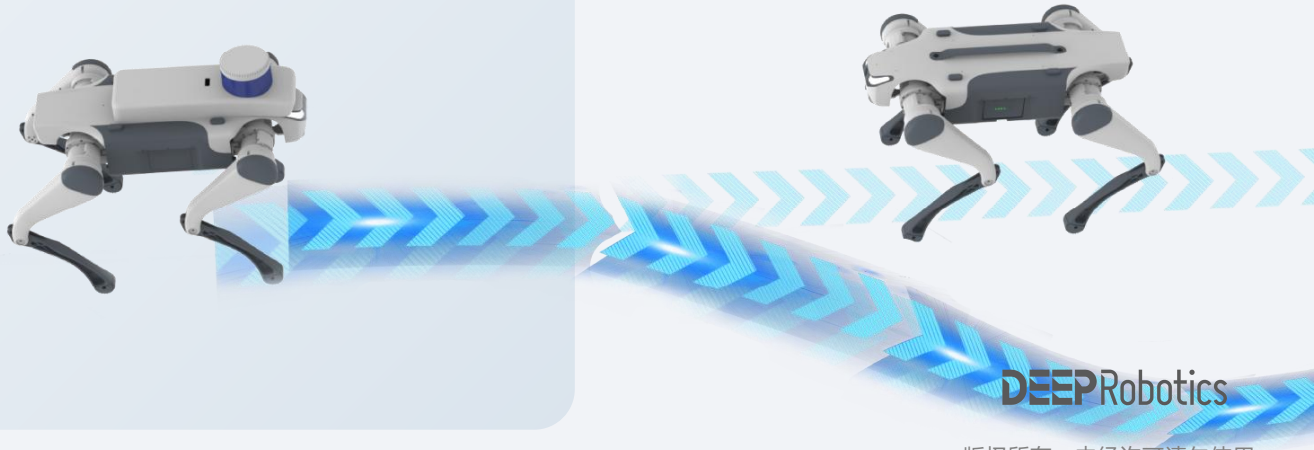
- Enhanced FPV image transmission, fewer lag errors
- Enhanced lights interaction, users are able to know robot's state in real-time



SAFER & DIVERSE PERCEPTION

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

* These functions are only available for particular versions



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Lite3 Parameters

	Basic (Lite3)	Venture (Lite3V)	Pro (Lite3P)	LIDAR (Lite3L)
STANDING SIZE	610mmx370mmx406mm	610mmx370mmx445mm	610mmx370mmx445mm	610mmx370mmx503mm
WEIGHT(WITH BATTERY)	12kg	12.2kg	12.7kg	13.7kg
ENDURANCE	1.5h~2h	1.5h~2h	1.5h~2h	1.5h~2h
DISTANCE	5km	4km	3.4km	2.7km
SLOPE	40°	40°	40°	40°
STAIR	15cm	15cm	15cm	15cm
LOAD(continuous)	7.5kg	7.0kg	6.5kg	5.0kg
PERCEPTION	· front & rear auto-stop	· front & rear auto-stop	· front & rear auto-stop · object following ·obstacle avoidence	· front & rear auto-stop · object following ·obstacle avoidence ·auto-navigation
INTERFACE	/	Ethernet, Output(5V/12V/24V)	USB3.0, HDMI, Ethernet, Output (5v/24V)	USB3.0, HDMI, Ethernet, Output (5v/24V)
SECONDARY DEVELOPMENT	/	Provide model for simulation, SDK, API, perception interface, and related documents		

* All parameters are labortary data, operate in real enviroment may have differences.

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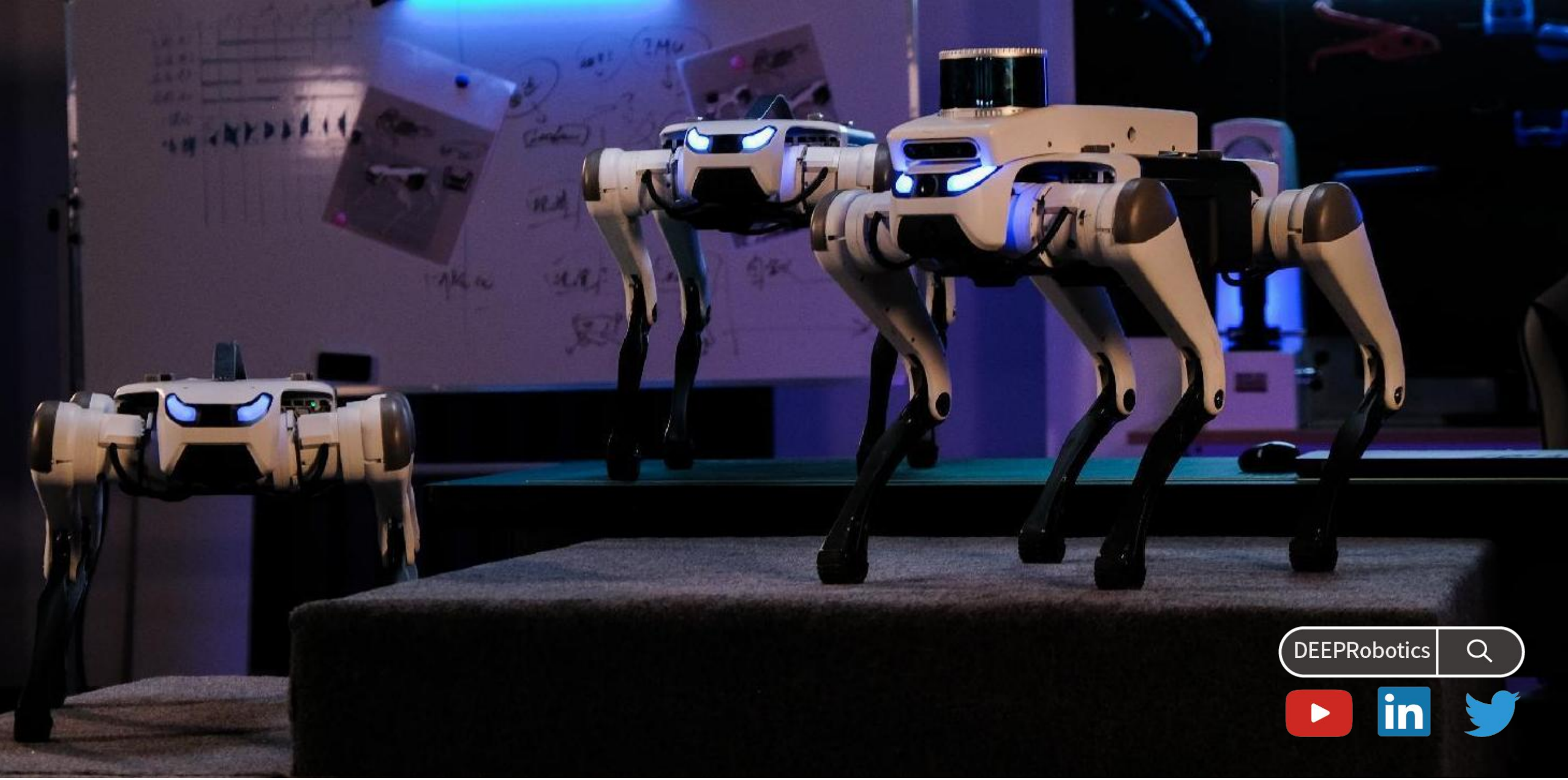

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Leading the industrial application of quadruped robot