

WHEELED BIPEDAL ROBOTS

Direct Drive Tech

Tita, a wheeled and bipedal robot, seamlessly combines exceptional perceptual capabilities with advanced decision-making. With an impressive 6-8 degrees of flexibility, Tita harnesses the speed and agility of wheeled robots while leveraging the adaptability of their legged counterparts through state-of-the-art direct-drive joints and hub motor drive technology. Its streamlined and integrated design, coupled with superior maneuverability, make it a standout performer across various tasks.

- > Offers quick modular assembly and disassembly of accessories with its versatile rails on the upper body
- > Adapts effortlessly to complex terrains, ensuring efficient movement with exceptional anti-falling and enhanced self-recovery capability, instantaneous responsiveness, and heightened obstacle avoidance awareness
- > Supports secondary development in multiple modes, empowering users to operate it at any level through RPC (Remote Procedure Call) or on-board programming.



WHY ISAAC ROS?

“The CuVSLAM in the Isaac ROS package fuses IMU and visual data for robust mapping and localization through 6 DoF pose estimate. This ready-to-use GPU accelerated robotics SDK enables real-time performance for Direct Drive’s core perception algorithms. ”.

- Di Zhang, President at Direct Drive Tech

