

Technical Datasheet Stella, Ahead.IO

Basic Parameters	
Degrees of freedom	3 per leg
Net weight	14.1 kg (robot) + 1.1 kg (batteries)
Maximum Payload	+ / - 3 kg
Tibia length (all legs)	170 mm
Femur length (all legs)	185 mm
Ground clearance	220 mm
Material	PETG, PLA, Rubber, FR4 and Aluminum plates
Power Input	29.6 V
Power	2x 4s 5000 Mah Li-Po in series
Controller ADrive	Proprietary
Communication	Bluetooth, WiFi, LTE (optional)

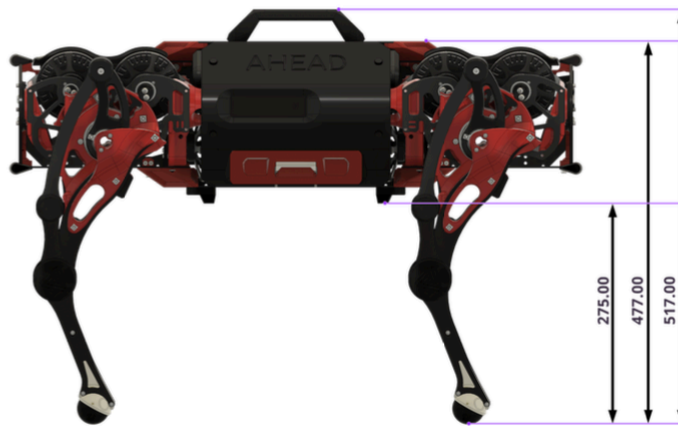
Height when laying down (excluding handle)	202 mm
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Height in typical stance (excluding handle)	370 mm
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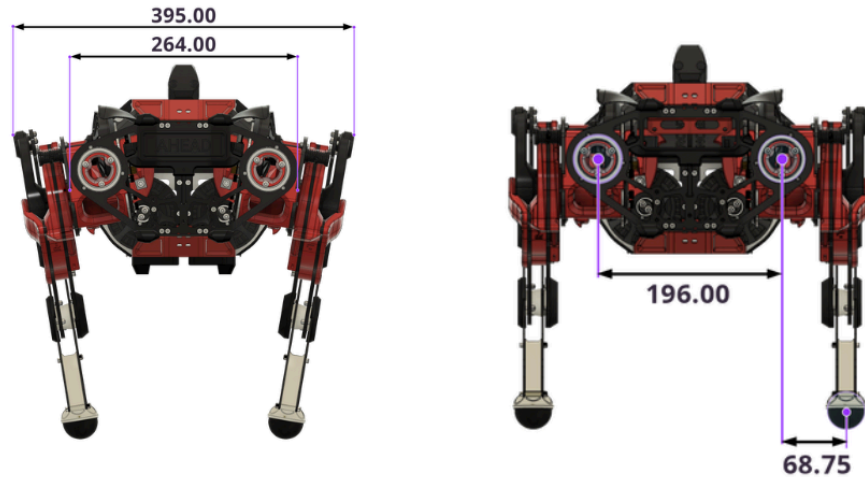
Height maximum extended (excluding handle)	477 mm
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Total length (with legs) when standing in typical stance	791mm
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Total Width (with legs)	395 mm
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Axis Motion Parameters	
Hip angular range of motion	120 deg
Knee angular range of motion	120 deg
ABAD angular range of motion	100 deg
Torque Parameters	
Hip - Max torque / Continuous torque	22.9 Nm / 4.8 Nm
Knee - Max torque / Continuous torque	21.6 Nm / 4.8 Nm
ABAD - Max torque / Continuous torque	21.6 Nm / 4.8 Nm
Hip / Knee / ABAD reduction ratio	1:8.5 / 1:8 / 1:8