Génération ROBOTS

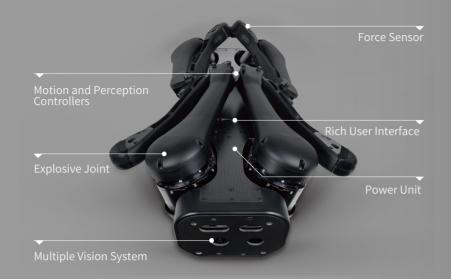
AlienGo



宇树科技

Manufacturer of Excellent Motion Performance Robots

Product Introduction



Innovation



Environment



Practical



Craft

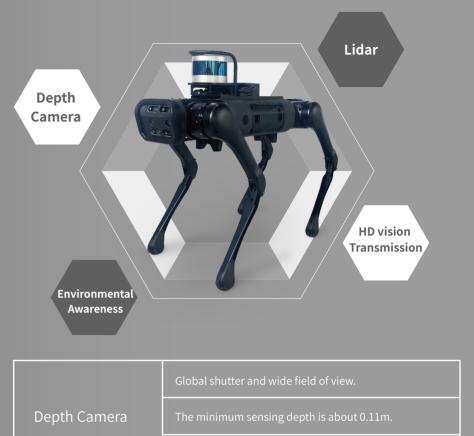


AlienGo Technical Parameters

FUNCTION

	PARAMETER
attery)	
	0.65*0.31*0.6m/ 2.1*1.0*2.0ft
ed	
	≥ 25° 18cm
	12600mAh
	Emergency stop, fall protection
	Voltage, temperature, circuit, charging alarm
	Support
	Support
	Support
	Support
	$FE \times 2$, HDMI $\times 2$, USB 3.0 $\times 2$, RS 485 $\times 1$
	Motor Encoder $ imes$ 1, Output Encoder $ imes$ 1
	Motion control:Ubuntu (real-time) Environmental awareness:Ubuntu-ROS
lopmental	

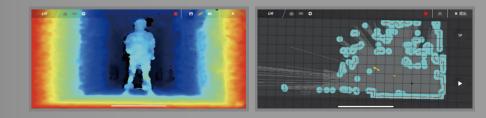
Intelligent Perception System



ution depth output up to 1280 x 720 .

	Highly optimized V-SLAM, loop offset is less than 1%.
Visual Odometer Camera	The delay between posture action and action reflex is less than 6 milliseconds.
	Fisheye lens imager, hemispherical 163±5° field of view, stable tracking target.

APP



Human Posture Recognition Tracking and Face Recognition

1.Body Posture Recognition

The color camera can identify the specific posture of the person according to the deep learning model, and conduct human-machine interaction. The robot can make corresponding movements according to different body postures.

2. Human Skeleton Perception

The robot can analyze and calculate the two-dimensional skeleton information of the human body according to the color information from the perspective, and further analyze and calculate the three-dimensional skeleton information and

3. Target Person Tracking

When there is more than one person in the scene, someone can tell the robot to lock he/she by a certain posture (for example, raising the left hand). Thereafter, the robot will follow the movement of the target, even during the movement.

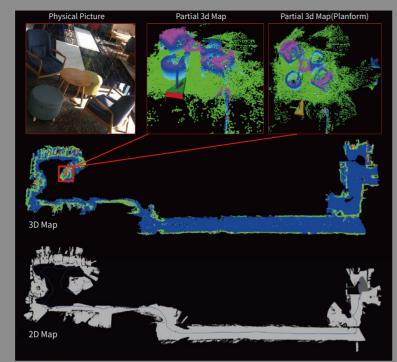


4. Face Recognition and Appearance Determination (under development)

From the perspective of the robot, artificial intelligence algorithm is used to auto-matically conduct face recognition and crowd classification, and it can identify



Depth Vision -3d Map Real-time Creation and Navigation Planning



3D Environment Construction

the object with the help of a specific vision algorithm.

Probability Map

surroundings as it moves provide back obstacle data.

Dynamic Obstacle Perception

within a certain range, thus discarding the "moving artifact" left by the dynamic obstacle on the map.

The Global Positioning

tions are available. The map will follow the camera's perspective in real time, and

Loop Detection

The robot can maintain a high loop-back accuracy in a wide range of fields, a high positioning accuracy within a certain range, and can maintain stability within a certain oscillation amplitude, with drift or loss.

Application



Research Entertainment Inspection Exploration















Logistics

Care



Flexible mobility, excellent perfor-mance, suitable for mountain, jungle,





obotic dogs, making them suitable ompanions for family companionhip and care.



Reliable mechanical structure and super - fast response algorithm, can achieve large jumps and obstacle

Accomplish tasks like patrol explora-tion, material transport in the fields of petrochemical, electric power,



The discrete landing point of the foot robot and Unitree self-developed multi-vision technology can quickly go up and down the stairs (different stair specifications have different perfor-

Génération ROEOIS

Distributeur officiel



sales@generationrobots.com +33 5 56 39 37 05 www.generationrobots.com

