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CDC-100

Vehicle Chassis Inspection Robot

- High definition white light+infrared thermal imaging dual cameras
- Omni-directional real time monitoring
- Intelligent wireless control terminal operation
- Lidar ranging, capable of intelligent obstacle avoidance
- Four wheel drive control
- Greater load-bearing capacity and smooth driving
- Flexible and free control, convenient maneuverability



COANTEC LTD

Floor 4,Block B,Building 5,Hengmingwan Chuanghui Center,Longping West Road,Longcheng Street,Longgang District,Shenzhen, China 518172

E-mail: zyd@chinavideoscope.com

Tel: +86 755 8972 8626 Web: www.chinavideoscope.com www.chinaborescopes.com



Website



TikTok

1. Brief introduction

The CDC-100 series vehicle chassis inspection robot is a detection device that combines multiple technologies such as machine vision, image recognition, and intelligent car control. By wirelessly controlling the robot's movement through a tablet, it can easily inspect the real-time condition of the vehicle bottom, greatly reducing inspection time, effectively reducing work intensity, and improving inspection efficiency. Used for inspecting the chassis of various vehicles, it can perform safety checks on stations, docks, airports, venues, etc., or inspect the interior seats of trains and airplanes. It can be widely used in various scenarios such as car maintenance, modification inspections, large-scale event security checks, vehicle bottom explosive discharge, customs anti-smuggling, public security investigations, etc.

2. Powerful Performance

Lightweight and compact

The detection robot intelligent car is made of carbon fiber material and can detect the bottom of various vehicles including cars, racing cars, special vehicles, buses, trains, etc.

Easy to operate

Adopting the Mecanum four-wheel drive remote control solution, the controller comes with an 8.8-inch high-definition display screen. The car can rotate forward, backward, left, and right, achieving real-time detection without blind spots. It can take photos, record videos, and perform one click puzzles with simple operation.

Intelligent system

The detection robot comes with an inertial navigation module, which can define all-round operation. The operation mode can be set, and the straight and rotation speeds can be adjusted. Configure a laser radar ranging device that can measure distance in real-time and intelligently avoid obstacles. Equipped with a license plate recognition system, it can quickly and accurately identify license plate information.

Powerful adaptability

The camera and lens can be replaced, suitable for different car models, with four-wheel independent suspension, able to adapt to different road conditions, and the image display is stable and smooth.

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The camera can tilt and rotate from 0° to 72°



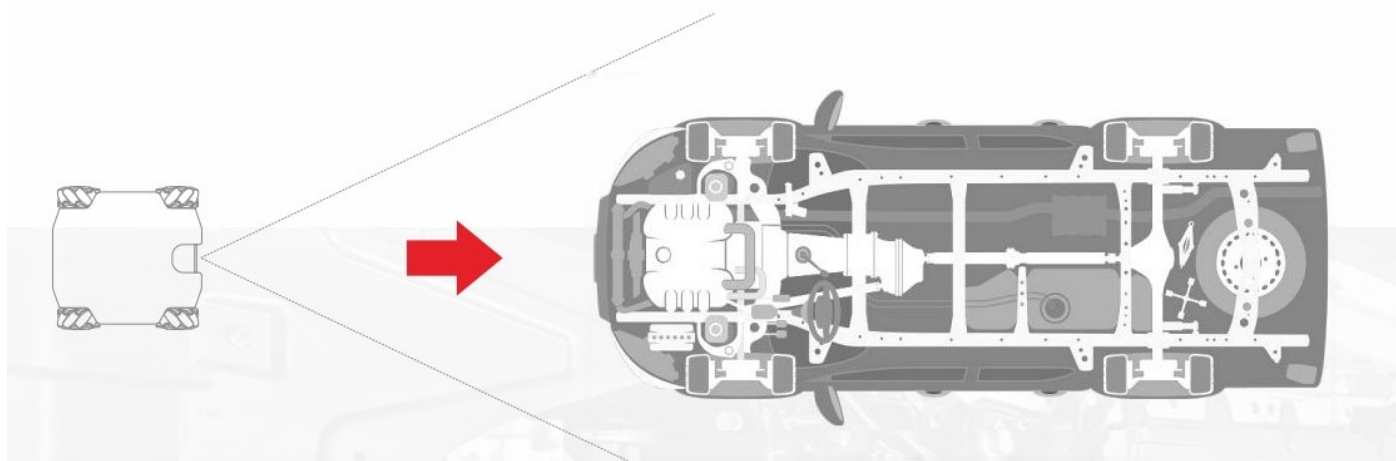
Can directly reach the bottom of various car models



Touch screen remote controller



CDC-100 Vehicle chassis inspection robot (vertical view picture)



CDC-100 Vehicle chassis inspection robot (upward view picture)

3. Technical Specifications

Weight of the robot body	3.9 KG	Working hours	4-6 hours
Detection robot intelligent car size	300mm * 289mm * 100.6mm	Maximum climb angle	24 degrees
Controller weight	1.1 KG	Maximum controlling distance	Open environment>100m; Complex environment around 50m
Controller size	285mm * 164mm * 51.5mm	Lighting	6pcs high brightness LEDs
Camera rotation	0-72 degrees tilt rotation	Display screen size	8.8-inch touch screen
Maximum speed	750mm/s	Display screen resolution	2560 * 1600
Maximum obstacle crossing height	14 mm	Driving camera	4 million pixel high-definition camera + thermal imaging camera
Load weight	2.5 KG	Protection level	IP53 (IP65 customizable)
Working voltage	Car body:22.2V; Controller:11.1V	Movement mode	Forward /backward/ left/ right translation; Rotate counterclockwise and clockwise in place