ZA-UVSS-I

Mobile Under Vehicle Surveillance System



1.Product introduction:

The Mobile Under Vehicle Surveillance System is a safety inspection system independently developed by our company, which can detect whether there are illegal changes under the car, hiding drugs, bombs and other prohibited items or personnel, and can also check the inconvenient places for the human body. In addition, this product is portable and mobile to meet the needs of mobile temporary inspection. This product is suitable for the inspection of car chassis in security areas such as temporary security check at large-scale events and temporary checkpoints.

- Cutting-edge technology. Our company is a domestic independent research and development, design, production, sales in one of the integrated enterprises, the use of domestic leading technology
- Product diversification. Our car safety inspection and scanning system is divided into various types, there are fixed for prisons and other places, mobile for sports

venues and customized versions of fixed and mobile.

- Product networking. Customers throughout the country 31 provinces and cities and Europe, Asia, America and other countries and regions.
- Product innovation. Adhering to independent innovation, the company has a strong R & D team.

2. Main components:



The car safety inspection system mainly detects the bottom of various vehicles, and can quickly and accurately find the prohibited items and illegal smuggling and smuggling personnel hidden under the car, which is faster and more accurate than the traditional car safety inspection mirror, greatly improving the speed and accuracy of vehicle safety inspection, and reducing the investment of human resources.

3. Function advantages:

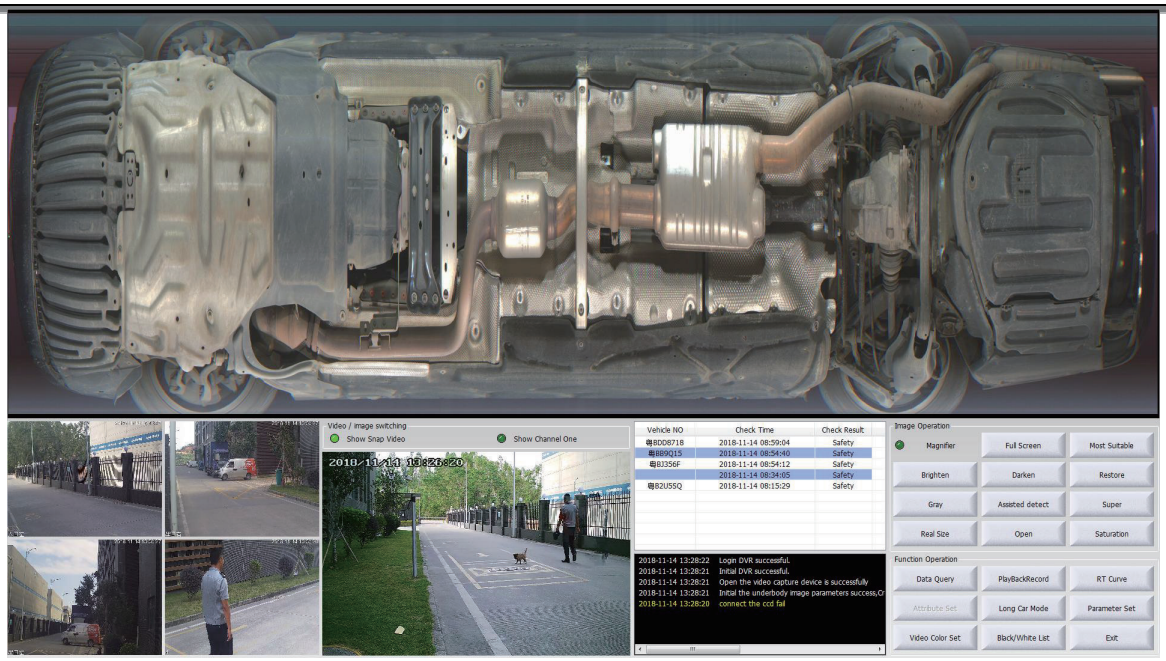
1. The image processing speed is fast, and the image can be imaged quickly within 1 second, which greatly improves work efficiency;
2. Auxiliary inspection function for suspicious items to improve inspection efficiency;
3. Automatically generate pictures and comparisons to improve inspection accuracy;
4. Systematic records and inquiries allow the public security agencies to provide the most effective assistance in the inquiry and verification of various security entry and exit records;
5. Strong adaptability, meeting the requirements for inspecting all domestic and overseas vehicle models;
6. Use imported auxiliary lighting with a service life of more than 10,000 hours;
7. Single multi-sealing design, military-grade safety protection technology;
8. Modular combination design, easy maintenance;
9. High strength resistance to pressure and wear, pressure resistance capacity of more than 30 tons
10. Anti-vibration design, greatly improve the protection of precision instruments such as cameras;
11. License plate automatic recognition rate 100%, black and white list registration

4. Application scope:

1. Airports, prisons, customs and other government departments, and large public parking lot entrances and exits are used to check whether there are prohibited items in and out of vehicles.

2. Large activities, exhibition entrance for the vehicle safety inspection.

3. Used for security check, explosion-proof, security check at the bottom of military vehicles.



Operation interface



Physical installation diagram

5. Main technical parameters:

item	argument
Imaging method	Using linear array CCD scanning technology to image in dynamic manner
Scanning method	Fully automatic, infrared trigger condition scanning mode
Maximum scan rate	18kHz
Vertical resolution of vehicle bottom image	≥2048 pixel CCD
Image resolution	12000 × 7500; 20 million pixels
Passing speed	≥1-80km/h, recommended ≤30km/h
Scanner data cable	standard 10 meters; (length can be customized)
Vehicle bottom image scanner	Designed using unique open wide field of view vehicle bottom image acquisition technology
Field of view angle	≥175 degrees
Auxiliary lighting	160W
Lighting component	Two single sealed LED surface light sources,lifespan: >50000h
Scanning direction	Unidirectional scanning
Load-bearing	≥20T
Waterproof grade	IP68
Operating environment temperature	-20℃ to 60℃
Scanner weight	28kg
Scanning device size	450×400×88mm
Working voltage	DC24V
System power supply	AC110-240V/50-60Hz
Vehicle bottom image display method	Large format landscape display
Chassis storage or	<1 second

loading time	
Image retrieval	Can retrieve the stored car bottom and license plate image according to the date, time, license plate number and other information
Image automatic storage, delete function	Save no less than 200,000 pictures, automatically delete expired pictures
Image quality adjustment function	It can adjust the saturation, contrast, balance and sharpening of the image of the car bottom or license plate. And carry on the magnification and reduction processing, and the magnification ratio of >16, and can be enlarged to the local display
Vehicle chassis information function	The historical chassis image of the vehicle can be compared with the current image on the same screen to assist the personnel to check the work, and it is easier to find the difference of the vehicle.
Suspicious items auxiliary inspection function	The software automatically finds and identifies suspicious objects in the chassis of the vehicle, and automatically selects and prompts the location of suspicious objects through the software to assist personnel in inspection.
Structure design of scanning device	Single multi-seal design
System host server and display	1, display: 22 inch true color LCD display 2. CPU: INTEL i5 processor 3, motherboard: special motherboard 4, Memory: DDR3, greater than or equal to 4GB 5, hard disk: 256GB high-speed hard drive 6, appearance: aluminum alloy composite material
License plate recognition system	1, standard 1 license plate recognition module, can be selected to expand multiple; 2, single character recognition accuracy: ≥99%; 3, the average recognition time: <20ms; 4, the whole card recognition accuracy: ≥95% 5, license plate image allows horizontal tilt Angle: -10 ~ +10 degrees; 6, character (except Chinese) recognition accuracy:

	≥93% 7, video signal to noise ratio > 48db

6.Configuration list:

NO.	Device name	Model	Unit	QTY
1	Vehicle chassis image analysis and management software	ZOAN	ZA-UVSS-I	1
2	Vehicle chassis imaging equipment	ZOAN	ZA-UVSS-I	1
3	Control operation box	ZOAN	ZA-UVSS-I	1
5	License plate recognition system	ZOAN	ZA-UVSS-I	1
		ZOAN	ZA-UVSS-I	1

Accessories and auxiliary materials:

NO	NAME	Model	Model	Unit	QTY	Remarks
1	Scanner control line (customized)	ZOAN	ZA-UVSS-I	Pcs	1	Length can be extended
2	License plate camera to console data cable			Pcs	1	
3	Control box power cord			Pcs	1	
4	License plate camera power cord			Pcs	1	
5	Deceleration strip	/	/	Pcs	1	/

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