

## Fixed Under Vehicle Surveillance System

### TW-UVSS-II

The TW-UVSS-II fixed under vehicle surveillance system is a new generation of vehicle chassis safety inspection system independently developed by our company. It can check whether the vehicle bottom has been illegally modified, concealed drugs, bombs and other prohibited items or personnel, and can also check Go to places that are inconvenient for the human body to reach. In addition, this product has a high protection level design and can work normally in harsh environments. This product is suitable for inspecting car chassis in airports, docks, customs, prisons, military restricted areas, and other security inspection areas.

- Specially designed for important places such as Public Security Bureau, Airport Customs, large-scale events, etc.
- Strict internal quality control, implementing the principle of double inspection of engineering and production
- Safeguard measures for the complete machine components, adopting modular design
- Passed ISO14001 environmental management system certification
- Passed ISO9001 quality management system certification



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- Passed OHSAS18001 occupational health and safety management system certification
- Passed the national standard GA/T 1336-2016 general technical requirements for vehicle bottom imaging safety inspection systems
- Passed the inspection by the National Safety and Police Electronic Product Quality Inspection Center of the Ministry of Public Security
- Passed EU CE certification/US FCC certification/EU ROHS certification
- Obtained IP68 certification
- Obtain computer software copyright registration certificate
- Obtained utility model patent

## Main components:



**Vehicle bottom scanner part - main body**



**Vehicle bottom scanner part- pressure-resistant bottom tank**



**Console**



**Distribution box**



**License Plate  
Recognition Camera**



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The under vehicle surveillance system mainly detects the bottom of various vehicles and can quickly and accurately find prohibited items and illegal immigrants and smugglers hidden under the vehicle. It is faster and more accurate than traditional vehicle bottom inspection mirrors, greatly improving the efficiency of vehicle safety inspections. Speed and accuracy, reducing investment in human resources.

## 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, pressure resistance and wear resistance, with a pressure resistance of more than 50 tons;
10. The pressure-resistant bottom tank module alleviates the vibration and impact of external forces and protects the stable performance and normal operation of the equipment;
11. All-weather working capability to ensure normal work without interruption, 365 days and nights;
12. Air drying circulation system, scanner anti-fogging protection function;
13. Automatic license plate recognition and black and white list registration;
14. Peripheral system linkage and control, can be connected to linked ID card readers, document scanners, portrait capture, printers, etc.

## Application scope:

1. Government departments such as airports, prisons, customs, and entrances and exits of parking lots in large public places are used to check whether there are prohibited items in vehicles entering and exiting.
2. Carry out safety inspections on vehicles at the entrances and exits of large-scale events and exhibitions.
3. Used for security inspection, explosion prevention, and safety inspection of the bottom of military vehicles.



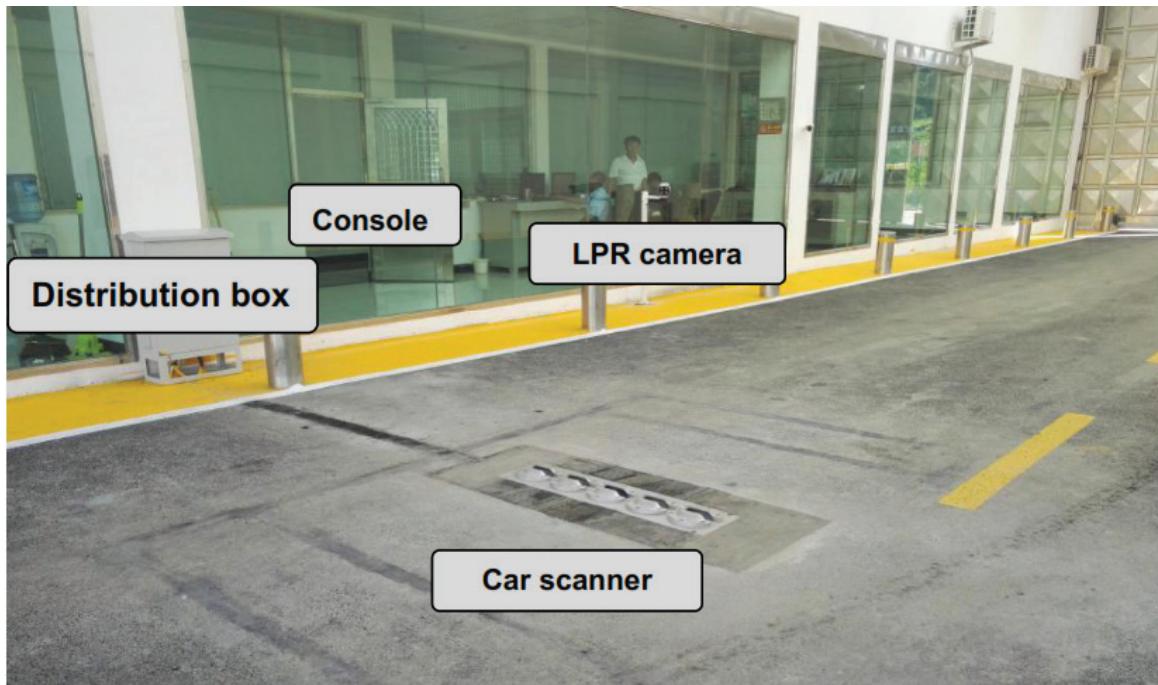
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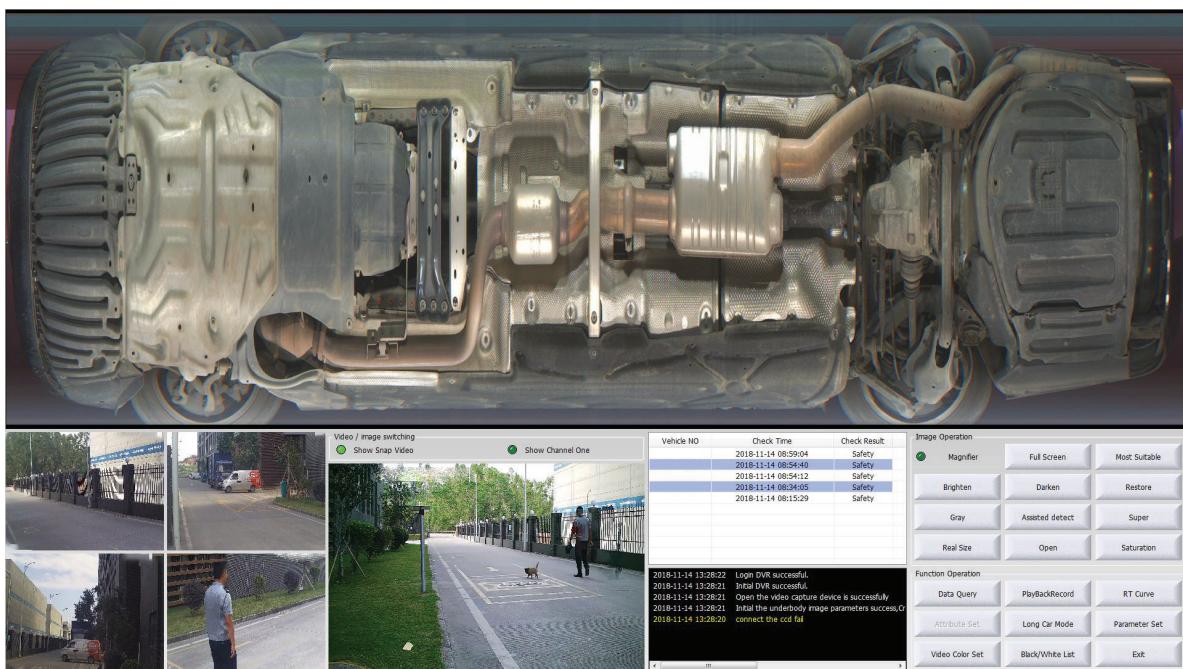
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**Physical drawing of on-site installation**



**Operation interface**



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## Technical Specification

Technical Specification	
Imaging method	Using linear array CCD scanning technology to image in dynamic manner
Scanning method	Linear scan, fully automatic, ground sensing coil trigger
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	320W
Lighting component	Four single sealed LED surface light sources, lifespan: >50000h
Scanning direction	Bidirectional scanning
Load-bearing	≥50T (equipped with pressure-resistant bottom tank)
Waterproof grade	IP68
Operating environment temperature	-25°C to 60°C
Environment sensing function	Display temperature, humidity, atmospheric pressure and other environmental parameters on the display inside the distribution box, and intelligently control the air circulation system
Air circulation system	Anti-fog protection function for scanner
Scanning device structural design	Single body with multiple seals, high-strength pressure-resistant design, dustproof, waterproof and other functions.
Scanner weight	105 Kg
Scanning device size	1100×280×180mm
Working voltage	DC24V
System power supply	AC110-240V/50-60Hz
Vehicle bottom image display method	Large format landscape display



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Chassis storage or loading time	<1 second
Image retrieval	The stored car bottom and license plate images can be retrieved
Function	By date, time, license plate number and other information.
Image automatic storage and Deletion function	Save no less than 200,000 pictures, and automatically delete expired pictures.
Image quality adjustment function	It can adjust the saturation, contrast, balance, and sharpening of the car bottom or license plate image; it can also enlarge and reduce the image, and the magnification can reach >16 levels, and it can enlarge and display the part.
Vehicle chassis image comparison function	It supports automatic pop-up of the vehicle's historical chassis image and current image for comparison on the same screen, assisting personnel in their inspection work and making it easier to find differences in the vehicle.
Auxiliary inspection function for suspicious items	The software automatically discovers and identifies suspicious objects on the vehicle chassis, and automatically selects and prompts the location of the suspicious objects through the software to assist personnel in the inspection work.
The main function	High-speed automatic scanning function, image information superposition function, automatic image storage and deletion function, image zoom function, image parameter adjustment function, image retrieval function, image export function, image printing function, vehicle appearance multi-angle collection function, license plate image or vehicle Appearance image collection function, user management function, linkage function, remote control function, vehicle statistics function, vehicle speed sensing function, license plate recognition function, black and white list management function, auxiliary alarm function, historical image comparison function, scanning mode setting function, two-way Pass scanning function;
System host server and monitor	<ol style="list-style-type: none"> <li>1. Monitor: 24-inch true color LCD monitor</li> <li>2. CPU: INTEL i5 processor</li> <li>3. Motherboard: dedicated motherboard</li> <li>4. Memory: DDR3, greater than or equal to 4GB</li> <li>5. Hard drive: 256GB high-speed hard drive</li> <li>6. Appearance: stainless steel composite material</li> </ol>
License plate recognition system	<ol style="list-style-type: none"> <li>1. Standard 1-channel license plate recognition system, which can be optionally expanded to multiple channels;</li> <li>2. Single character recognition accuracy: ≥99%;</li> <li>3. Average recognition time: &lt;20ms;</li> <li>4. Whole card recognition accuracy: ≥95%</li> <li>5. The allowed horizontal tilt angle of the license plate image: -10 ~ +10 degrees;</li> <li>6. Character (except Chinese characters)recognition accuracy:≥93%</li> <li>7. Video signal-to-noise ratio: &gt;48db</li> </ol>



## Configuration List

NO.	Device name	Model	Unit	QTY
1	Vehicle chassis image analysis and management software	ZA-UVSS-II	Set	1
2	Vehicle chassis imaging equipment	ZA-UVSS-II	Set	1
3	Distribution control box	ZA-UVSS-II	Set	1
4	Industrial computer console	ZA-UVSS-II	Set	1
5	License plate recognition system	ZA-UVSS-II	Set	1

NO.	Name	Model	Unit	QTY	Remarks
1	Scanner control line (customized)	ZA-UVSS-II	Pcs	1	Length can be extended
2	Data cable from control box to operating console		Pcs	1	
3	Data cable from license plate camera to console		Pcs	1	
4	Control box power cable		Pcs	1	
5	Console power cable		Pcs	1	



6	License plate camera power cable		Pcs	1	
7	Scanner to control box tubing	/	Pcs	1	
8	Civil construction	/			Provide it yourself

## Physical diagram of equipment



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## Equipment partial cases

Conference Center



Prison



Checkpoint



Airport



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**International Office :** Dubai

**Disclaimer :** All pictures shown are for illustration purposes only. The actual product and color may vary due to product enhancement. The brief specification is mentioned and may change without prior notice. Please consult us before placing any order.