

Under Vehicle Surveillance System

TW3300

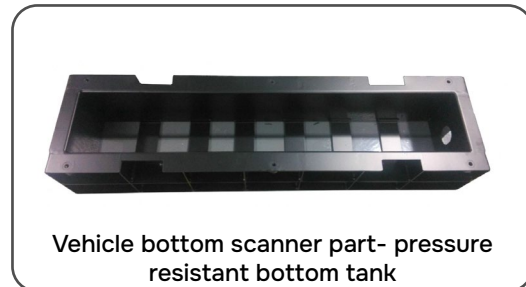
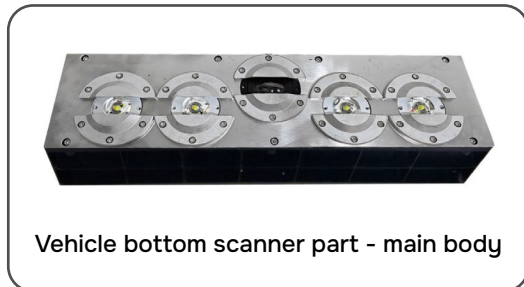


TW3300 is an advanced Under Vehicle Surveillance System (UVSS) designed to provide fast, accurate, and non-intrusive inspection of vehicle undercarriages. It captures high-resolution images to detect unauthorized modifications, concealed weapons, explosives, drugs, and other prohibited items that are difficult to inspect manually. Built with a rugged, high-protection design.

TW3300 delivers reliable performance even in harsh outdoor environments. Ideal for airports, seaports, customs checkpoints, military bases, government facilities, prisons, industrial sites, and other high-security locations, it enhances vehicle inspection efficiency while strengthening perimeter security.

- Designed for high-security installations such as Airports, Government Facilities, Defence Establishments, Customs Checkpoints, Critical Infrastructure, and Large Public Events.
- IP68-rated design for reliable operation in harsh outdoor environments.
- Advanced vehicle undercarriage imaging technology for high-accuracy security inspections.
- Designed for continuous operation in demanding security applications.

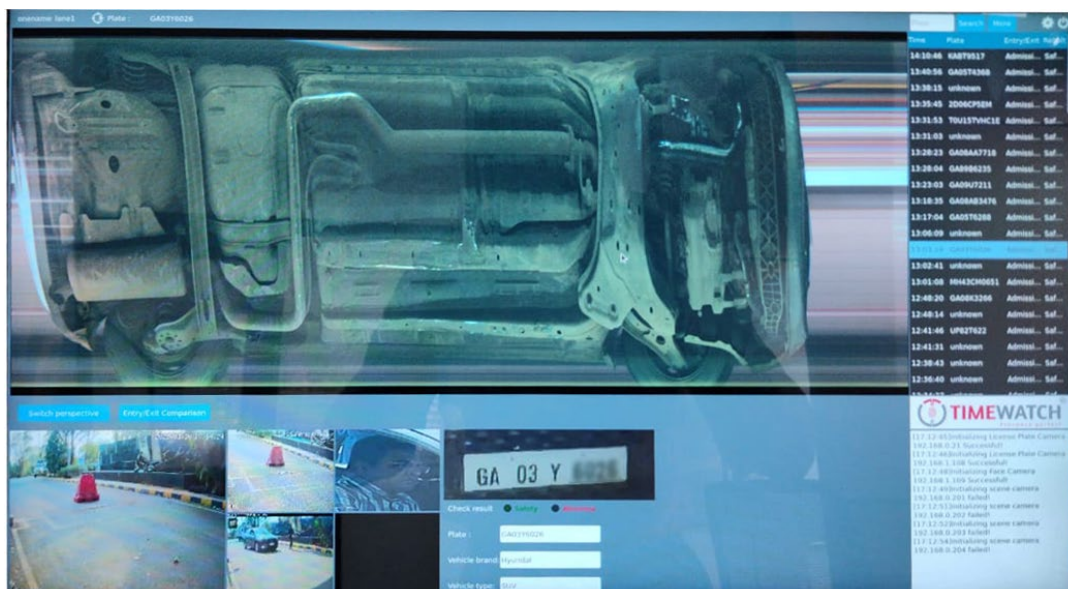
■ Main components



■ Function advantages

- The image processing speed is fast, and the image can be imaged quickly within 1 second, which greatly improves work efficiency
- Auxiliary inspection function for suspicious items to improve inspection efficiency
- Automatically generate pictures and comparisons to improve inspection accuracy
- 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
- Strong adaptability, meeting the requirements for inspecting all domestic and overseas vehicle models
- Use imported auxiliary lighting with a service life of more than 10,000 hours
- Single multi-sealing design, military-grade safety protection technology
- Modular combination design, easy maintenance
- High strength, pressure resistance and wear resistance, with a pressure resistance of more than 50 tons
- 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
- All-weather working capability to ensure normal work without interruption
- Air drying circulation system, scanner anti-fogging protection function

Operation interface



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	≥2048 pixel CCD
Image resolution	12000 × 7500; 20 million pixels
Passing speed	≥1-80km/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	≥180 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)
Vertical resolution	≥2048 pixel CCD
Waterproof grade	IP68
Operating 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	105kg
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
Chassis storage or loading time	1100×280×180mm
Working voltage	<1 second
Image retrieval function	The stored car bottom and license plate images can be retrieved by date, time, license plate number and other information.
storage and deletion function	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	• Monitor: 24-inch true color LCD monitor • CPU: Intel Core i7 • Motherboard: dedicated motherboard • Memory: 8GB • Hard drive: 2TB HDD • Appearance: stainless steel composite material
License plate recognition system	• Standard 1-channel license plate recognition system, which can be optionally expanded to multiple channels • Single character recognition accuracy: $\geq 99\%$ • Average recognition time: $< 20\text{ms}$ • Whole card recognition accuracy: $\geq 95\%$ • The allowed horizontal tilt angle of the license plate image • $-10 \sim +10$ degrees • Character (except Chinese characters) recognition accuracy: $\geq 93\%$ • Video signal-to-noise ratio: $> 48\text{db}$

Application



Airport



Railways



Defense



Education



Hospital



Government



Office



Bank



Retail

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.