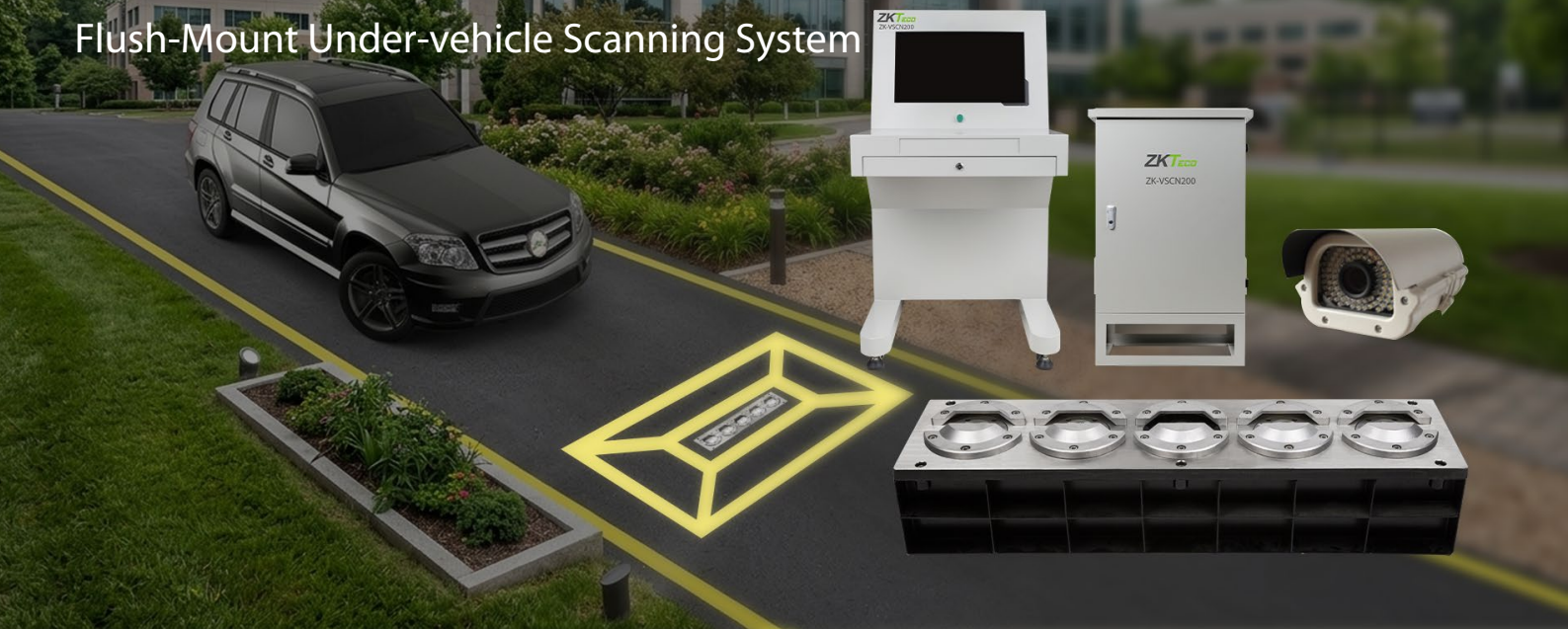


ZKTeco

# ZK-VSCN200

## Flush-Mount Under-vehicle Scanning System



### Overview

ZK-VSCN200 is a flush-mount under-vehicle scanning system that utilizes advanced high-speed line-scan CCD technology to perform comprehensive safety inspections on a wide range of vehicles, including passenger cars, vans, buses, and tractor-trailers. As a vehicle passes through, the system rapidly generates high-resolution images of the undercarriage within seconds and records to the computer. Combined with specially designed CCD camera angles, ensures that every detail of the undercarriage is accurately captured, assisting operators in quickly identifying contraband attached to the underside of the vehicle.

The ZK-VSCN200 is constructed from 304 stainless steel and features an IP68 protection rating, maintaining exceptional performance and durability even in extreme environments. It can also be seamlessly integrated with surveillance cameras or License Plate Recognition (LPR) systems to link and store license plate and undercarriage images. For high-security facilities such as government buildings, banks, and customs offices, the ZK-VSCN200 is the ideal solution for undercarriage inspection, enhancing security screening efficiency and delivering a higher level of security.

### Features

- Utilizing line-scan CCD technology for dynamic imaging, generate high-resolution images.
- Embedded triggers allow scanning in both forward and backward directions.
- High resolution imaging, output 20 MP color images.
- Scanned images are displayed instantly on the operator's monitor for immediate inspection.
- Support high vehicle speed, up to 60km/h.
- The scanner has a load capacity of over 50 tons.
- The surveillance camera can record the scanning process and capture images of vehicles.
- The scanner is IP68 rating, making it suitable for use in a wide range of extreme environments.
- The system is equipped with an air circulation system that can reduce fogging inside the scanner.
- Integrated with a License Plate Recognition (LPR) system, can link license plate number with undercarriage image and store on a computer(optional).

## Applications



Government Building



Airport



Customs



Bank

## Main Components

- **Scanner:** With strong construction, it has a weight capacity of 50 tons. Even a vehicle moves over the scanner, it can bear the weight. Also, even the passing speed of vehicle is up to 60km/h, scanner is able to capture details of undercarriage by a high-speed line-scanning CCD camera and generate a clear image.
- **Console:** With advanced image processing technology, the software provides kinds of functions to help operator find forbidden objects easily in a user-friendly interface.
- **Distribution box:** Distribution box contains power modules, main control board, and loop detector controller, among other components, it's the control center of the UVSS system.
- **Surveillance camera:** Can record the scanning process and capture images of vehicles. Then the picture and video are stored with corresponding undercarriage image. Can replace to LPR (optional).



## Specifications

### General Specifications

Technology	High-Speed Line-Scan CCD Dynamic Imaging
Image Resolution	12000 x 7500 (20 MP)
Scan Speed	1-60 km/h (Recommended speed: ≤ 30 km/h)
Imaging Time	Real Time
Maximum Scan Rate	18kHz
Effective Field of View (FOV)	≥ 170°
Load Bearing	≥ 50T
Vehicle Undercarriage Ground Clearance Limit	40 - 1000 mm
Vehicle Width Limit	≤ 4500 mm
Vehicle Length Limit	No limit
Scanner Height Above Ground	35 mm
Scanner Shell Material	SUS304
Scan Direction	Bidirection Scanning
Scanner Protection Level	IP68
Anti-fog	Air Circulation System

Fill Light	4 LED Lights
Trigger	Loop Coil
Image Format	BMP / JPEG
Surveillance Camera	2MP HD Camera
License Plate Recognition	Optional (E-LPRC500)
Main Cable	10 meters
Net Weight	Scanner: 122kg Console: 64kg Distribution box: 22kg
Gross Weight	Scanner: 142kg Console: 99kg Distribution box: 38kg
Dimensions (L*W*H)	Scanner: 1100 * 280 * 205 (mm) Console: 650 * 610 * 1220 (mm) Distribution box: 570 * 260 * 820 (mm)
Dimensions with Packaging (L*W*H)	Scanner: 1300 * 540 * 460 (mm) Console: 800 * 750 * 1460 (mm) Distribution box: 670 * 370 * 1010 (mm)

## Computer

Operating System	Win7
Processor	i5-3570
RAM	4GB
Hard Drive	1TB HDD
Max Storage	Up to 200,000 Scanned Images
Monitor	24"Color LED Screen (1920 x 1080P)

## Operating Environment

System Power	220 VAC +/- 10% 50/60Hz 110 VAC +/- 10% 50/60Hz
Operating Voltage	DC 24V
Power Consumption	≤ 1000W
Operating Temperature	-20°C to +60°C
Application Environment	Indoor (Console) Indoor / Outdoor (Scanner & Distribution Box)

## Undercarriage Image

