

## ZK-VSCN100

### Portable Under-vehicle Scanning System



### Overview

ZK-VSCN100 is a portable under-vehicle scanning system. It has a great mobility in checkpoints need to be moved or installations where roads cannot be dug up. ZK-VSCN100 does not need civil construction and can be installed in 10 minute include wiring. In addition, it is convenient to move and deliver because all components are able to be stored in a cabinet with wheels.

When vehicle passes, system can quickly generate a high definition image of vehicle undercarriage, which will be recorded in the computer. It helps operator accurately identify forbidden objects attached to the underside of vehicles. This under vehicle inspection system greatly improves the efficiency and accuracy of security check in order to achieve a higher level of safety.

\* Kindly Note: The product can only be used for temporary inspection, and can not be used under the rain.

### Features

- Utilizing line-scan CCD technology for dynamic imaging, generate high-resolution images.
- Portable design allows for quick setup and storage, offering greater flexibility.
- 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 20 tons.

- The surveillance camera can record the scanning process and capture images of vehicles.
- Integrated with a License Plate Recognition (LPR) system, can link license plate number with undercarriage image and store on a computer(optional).

## Applications



Checkpoint



Customs



Events



Government Building

## Main Components

**Scanner:** Built-in a high-speed line-scan CCD camera, it can dynamically scan the undercarriage of passing vehicles.



**Operator terminal:** With advanced image processing technology, the software provides kinds of functions to help operator find forbidden objects easily in a user-friendly interface.



**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	≥ 20T
Vehicle Undercarriage Ground Clearance Limit	80 - 800 mm
Vehicle Width Limit	≤ 4500 mm
Vehicle Length Limit	No limit
Scanner Height Above Ground	78 mm
Scanner Shell Material	Aluminum Alloy
Scan Direction	Single-direction Scanning

Scanner Weight	28 kg
Scanner Dimensions (L*W*H)	450 * 400 * 78 (mm)
Fill Light	2 LED Lights
Trigger	IR Sensor
Image Format	BMP / JPEG
Surveillance Camera	2MP HD Camera
License Plate Recognition	Optional (E-LPRC500)
Main Cable	10 meters
Weight	Gross Weight: 95 kg Net Weight: 52kg
Dimensions (L*W*H)	670 * 550 * 740 (mm)
Dimensions with Packaging (L*W*H)	850 * 650 * 970 (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	≤ 500W
Operating Temperature	-20°C to +60°C
Application Environment	Indoor / Outdoor

## Undercarriage Image

