

Dahua Under Vehicle Surveillance System

Key Features



Clear and Sharp Imaging

- 2K high definition image
- Industrial level line scan camera provides real color image



High Efficiency

- Simple and quick to deploy
- Scan up to 10 vehicles per minute operated by one person



Full Integration

- ANPR camera management on the UVSS client
- Able to integrate with entrance management system



Intuitive Use

- Plug & play
- Easy to use and maintain

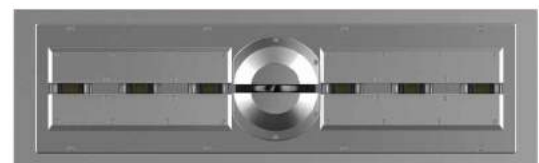


Database Reference

- All data stored locally
- Advanced report and export capabilities



Portable



Stationary

Dahua Under Vehicle Surveillance System

System Overview

An Under Vehicle Surveillance System is used to capture images of a vehicle's undercarriage while in motion. Security workers examine the captured images in real time and perform comparisons to prevent concealed weapons and contraband from entering or exiting secured compounds or restricted areas. In fixed applications where land can be dug up for installation, such as at prisons, embassies, and borders, the Dahua stationary UVSS solution (DH-MV-VBF5020CE-00) is an ideal option.

At checkpoints and installations where roads cannot to be dug up or in situations where portability is needed and temporary checkpoints are required to be moved, such as at important conference centers, temporary bases, and bridge checkpoints, the Dahua portable UVSS (DH-MV-VDM5021CE-00) allows for mobile automatic vehicle undercarriage inspection.

These two under vehicle surveillance systems are able to integrate an ANPR camera and retrieve undercarriage images via plate number, and compatible with other access control systems: barrier, cats claw, bollards, and other road blocks.

Image Details

The screenshot shows the UVSS client software interface. At the top, there are search filters for Start Time (2016/10/24), End Time (2016/10/24), Capture Device, and Vehicle Color. Below these are fields for Plate Number (C8EA) and Plate Type. A 'Submit' button is visible. The main area displays 'Vehicle Photos' and 'Station Photos'. Below the photos, there is a table with columns: Plate Number, Plate Type, Vehicle Color, Vehicle Type, Direction, Capture Device, Capture Time, Owner, Result, and Detail Description. The table contains two rows of data.

Plate Number	Plate Type	Vehicle Color	Vehicle Type	Direction	Capture Device	Capture Time	Owner	Result	Detail Description
PCE8A37	Blue	Gray	Compact Car	Out	Exit Exit	2005/10/22 15:35:30	Mr Liao	Not Passed	There is a bulge in the vehicle bottom
PCE8A37	Blue	Gray	Compact Car	In	Entrance Entrance	2006/10/22 12:40:12	Mr Liao	Passed	Vehicle bottom is normal

Figure 1: UVSS client

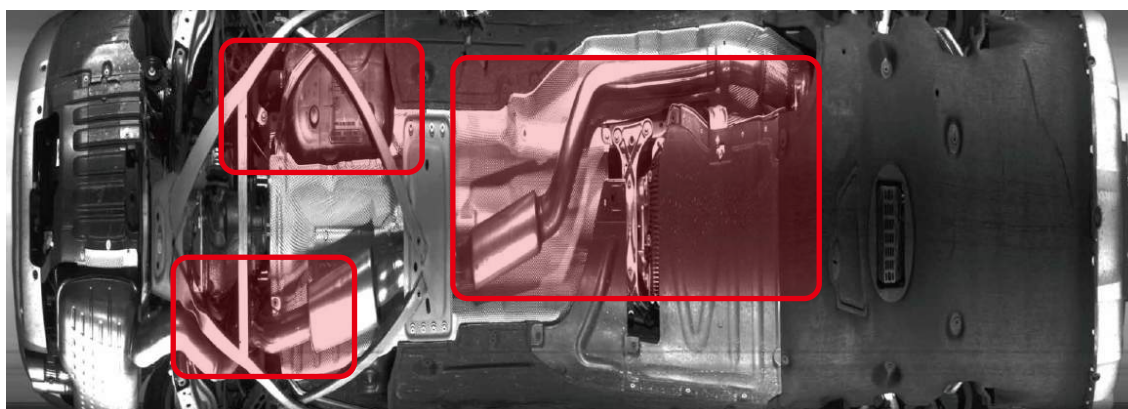


Figure 2: High resolution image of a vehicle's undercarriage



Figure 3: Image details

Dahua Stationary UVSS

System Components

The stationary Under Vehicle Surveillance System consists of four parts: under vehicle scanning module, Automatic Number Plate Recognition camera, power supply system, and system control module. The scanning module provides real-time under vehicle imaging while the ANPR camera engages in license plate recognition. PC-based software with an easy-to-use GUI provides linear image stitching and information indexing for easy review. In installations with only one access point, the standalone system is the best choice. However, if there are several entrances and exits, a centralized control system integrated into EMS (Entrance Management System) is recommended to achieve multi-point surveillance and centralized control.



Stationary

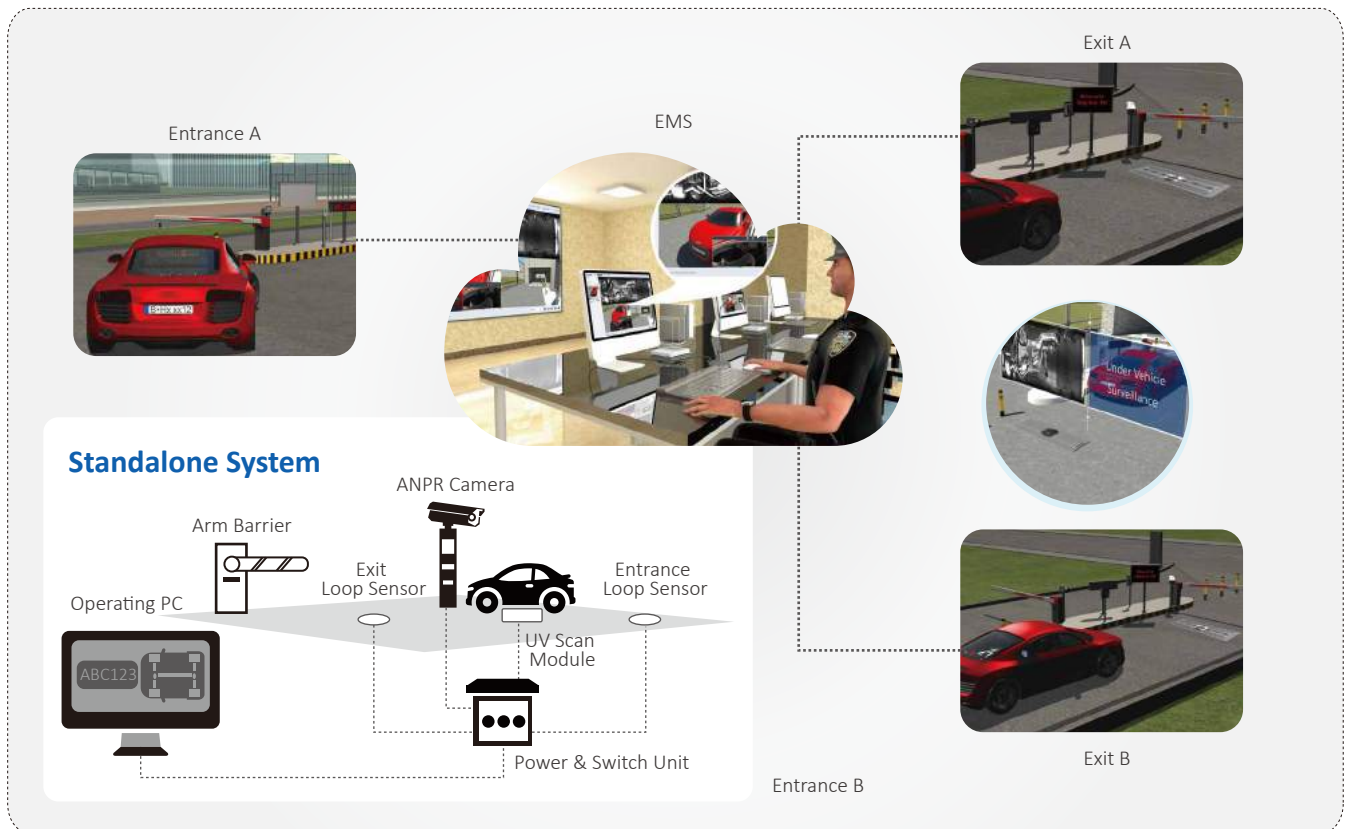


Figure 4: Stationary UVSS Centralized Management

Applications

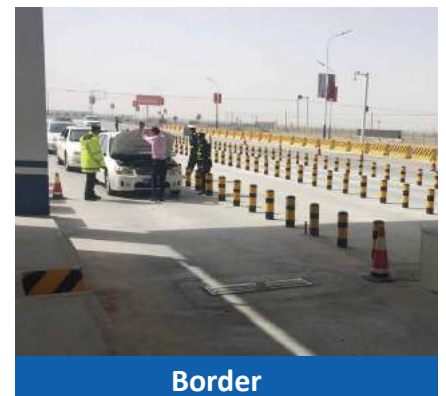
Prevent dangerous objects hidden under vehicles from getting into prisons, airports, military bases, banks, government buildings, borders, hotel entrances, warehouses, and other important places with high security levels.



Prison



Government Buildings



Border

Dahua Portable UVSS

System Components

The system consists of one portable scan unit and one control platform. The scan unit includes a high resolution line scan camera with low-distortion fisheye lens, two photoelectric position triggers, and long-life LED array lights. Combined with Dahua advanced distortion correction algorithms, the camera system provides a clear and sharp undercarriage image without distortion regardless of lighting conditions after automatically detecting and incoming vehicle. The scan unit is equipped with IP66 protection, making it compatible with most harsh environments.

The control platform is comprised of three components: an industrial grade PC, 21" monitor, and power and switch devices. The PC integrates with the UVSS client to stitch together the scanned line image and then output a high resolution picture. In addition, the system supports connecting an ANPR camera to detect and capture license plates. License plates can then be paired together with their corresponding undercarriage image for retrieval and comparison. Finally, the control platform fits nicely into a portable aviation case, making it easy to set up and ready to use in minutes.



Portable

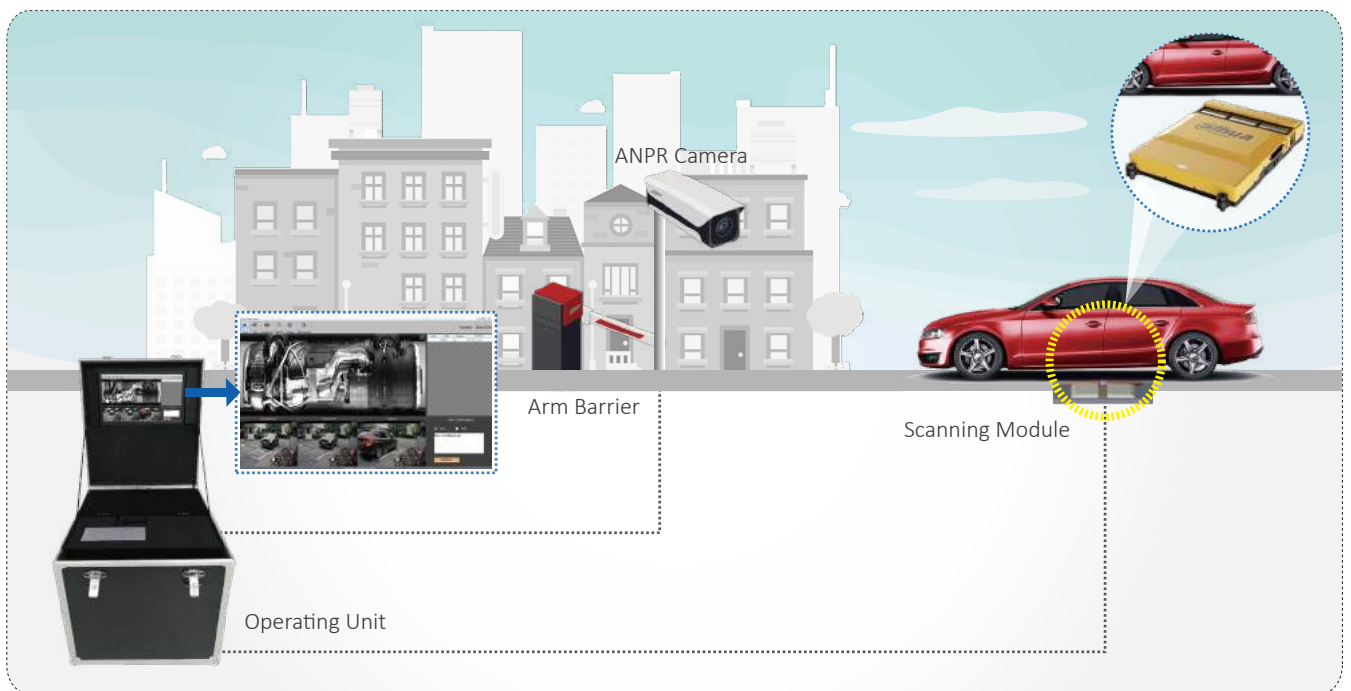


Figure 5: Portable UVSS Standalone Operation

Applications

The Dahua portable Under Vehicle Surveillance System, DH-MV-VDM5021CE-00 is the best choice for vehicle undercarriage inspection in the following scenarios:



Temporary Outdoor Checkpoint



Bridge Security Checkpoint

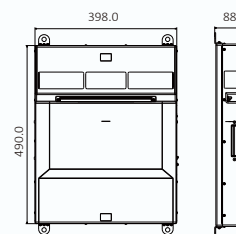
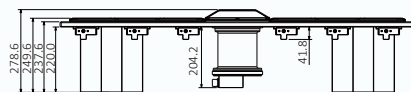
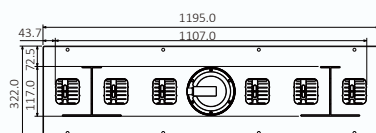


Conference Center

Technical Specifications

Under Vehicle Scan Unit	DH-MV-VBF5020CE-00	DH-MV-VDM5021CE-00
Image		
Resolution	Max 20MP	Max 20MP
Image Type	Color image	Color image
Field of View	180°	170°
Imaging Time After Exit Trigger	<1s	<1s
Max Vehicle Speed	80km/h,49.7mph (recommendation<50Km/h,31mph)	80km/h,49.7mph (recommendation<50Km/h,31mph)
Max Vehicle Chassis Height	≥60mm(0.19ft)	≥80mm(0.26ft)
Max Vehicle Chassis Width	≤4500mm(14.8ft)	≤4500mm(14.8ft)
Case Material	Stainless steel	Stainless steel
Anti-pressure	30t(66000lb)	10t(22000lb)
Power Supply	100-240V AC	100-240V AC
Illumination	480W dynamic LED array	250W dynamic LED array
Weight	50kg(110lb)	15kg(33lb)
Dimensions (mm)	1200x322x290 (47.2"x12.7"x11.4")	490x398x88 (19.3"x15.7"x3.5")
Environmental	DH-MV-VBF5020CE-00	DH-MV-VDM5021CE-00
Operating Temperature	-35°C ~ + 70°C (-31°F ~ 158°F)	-35°C ~ + 70°C (-31°F ~ 158°F)
Operating Humidity	<90%RH	<90%RH
Ingress Protection	IP68	IP66
Work Platform	DH-MV-VBF5020CE-00	DH-MV-VDM5021CE-00
Computer	Intel I5 based processor, 3.2GHZ	Intel I5 based processor, 3.2GHZ
Memory	8GB	8GB
Storage	2TB HDD	2TB HDD
Operating System	Windows 7	Windows 7
Monitor	LCD 21"	LCD 21"
Control	Mouse & Keyboard	Mouse & Keyboard
Power Supply	100-240V AC	100-240V AC
Interface	6*USB Port/ RS232*2	6*USB Port/ RS232*2
Ethernet	2*10/100/1000M, 1*10/100,adaptive	2*10/100/1000M, 1*10/100,adaptive

Dimensions: mm



ENABLING A SAFER SOCIETY AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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