Dahua TECHNOLOGY

DH-MV-VDM5021E-00
Portable Under Vehicle Surveillance System

- Display
- Mouse
- Keyboard
- Computer
- Cable
- ANPR
- Tripod
- UVSS Scanning Module
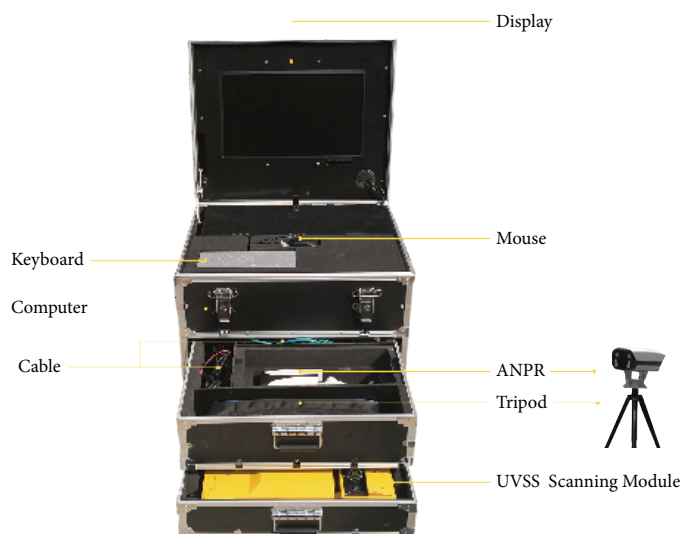
·High resolution with 2K line scan camera

·Low image distortion, high image grey level up to 11

·Supports max 80km/h vehicle speed

·Less than 1s to synthesize whole vehicle image

·Supports automatic number-plate recognition for various countries with ANPR camera

·Large FOV up to 170°, easy to capture the whole image of under vehicle

System Overview

Dahua UVSS (Under Vehicle Surveillance System) uses machine vision technology to grab the full and high resolution image of under vehicle to provide a top security solution. Portable UVSS is convenient to be removed, and is suitable for temporary checkpoints, such as important exhibition centers, conference centers , temporary bases, and bridge checkpoints etc.The portable UVSS integrates with ANPR camera and can retrieve under vehicle images via plate number.

Functions

Embedded license plate recognition algorithm
With built-in intelligent video analytics, the ANPR camera has the ability to detect and recognize moving vehicle's plate number. The system can associate the vehicle's plate number with the under vehicle image. No matter approaching or departure vehicles, access ANPR camera will take snapshots for plate cutout and overview image of the vehicle.

Clear and sharp image
UVSS scanning module adopts high resolution line scan camera with low-distrotion fisheye lens,and long-life LED array lights. Integrated with Dahua advanced distortion correction algorithms,

it provides a clear and sharp under vehicle image regardless of tough lighting conditions.

Adaptive to a wide speed range
The recommended typical speed is around 50km/h, and it can support up to 80km/h for vehicle image capture in motion; Portable UVSS is able to detect vehicle's under carriage image without stopping the vihicle and the image synthesizing time is less than 1 second.

Professional and easy to use software
PC-based software with an easy-to-use GUI provides linear image stitching, plate number integration and live video on the home page. It supports quick retrieval of the history records and checking the under vehicle image details. Integrated algorithm supports images comparision of the same vehicle or recognizing suspicious areas which help operator to improve efficiency.

Environmental
With working temperature ranging from-35 °C to +70 °C, the UVSS scanning module is designed for extreme temperature environments. Subjected and certified by rigorous dust and water immersion tests, IP68 rating makes it suitable for most harsh environments.

Technical Specifications

Items	Specification
Resolution	2K
Image Type	Color image
Field of View	170°
Imaging Time After Exit Trigger	<1s
Max Vehicle Speed	80km/h,49.7mph (recommendation<50Km/h,31mph)
Compatibility	Chassis height:≥80mm(0.26ft); Chassis width:≤4500mm(14.8ft)
Load-Bearing	10t(22000lb)
Case Material	Stainless steel
Power Supply	100-240V AC
Illumination	250 W dynamic LED array
Weight	15kg(33lb)
Dimensions (mm)	490x398x88 (19.3"x15.7"x3.5")
Operating Temperature	-35°C ~ + 70°C (-31°F ~ 158°F)
Operating Humidity	<90%RH
Protection	IP68

APRN Camera

| Items	Specification
Image Sensor	1/2.8" CMOS
Effective Pixels	1920 × 1080 (OSD black strip excluded)
Trigger Mode	Video detection; I/O coil; video detection and I/O coil
Illuminator Number	6 IR illuminators, brightness adjustable
Focal Length	3.2 mm–10.5 mm
Vehicle Detection	Vehicle capture rate ≥99%
Exposure Mode	Full auto, customized auto, customized
Video Compression	H.264B/H.264M/H.264H/H.265/MJPEG
Video Frame Rate	PAL: Main stream (1920 × 1080@25fps, 1280 × 720@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps)
Network	1 100/1000M Ethernet port (RJ-45)

Dimensions (mm)

398

83

490
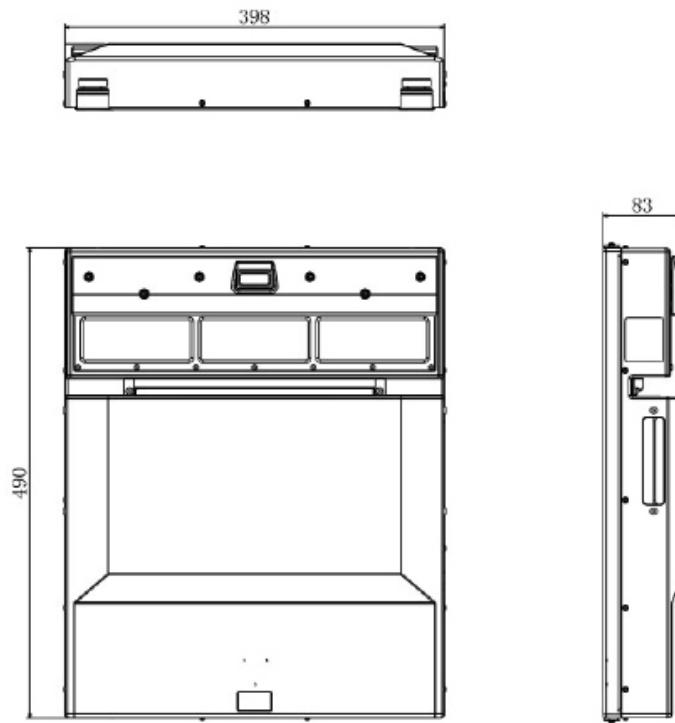
Accessories

Speed Bump*2pcs
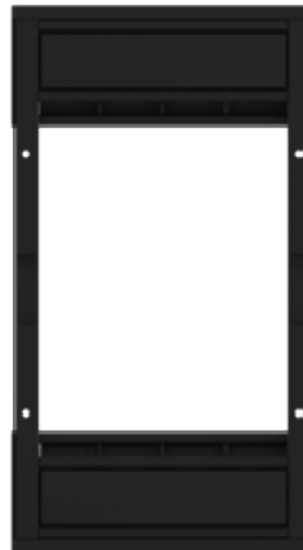
Fixed Mount*1pcs

📖 **NOTE** Accessories are not included inside the UVSS kit, they need to be placed order separately.