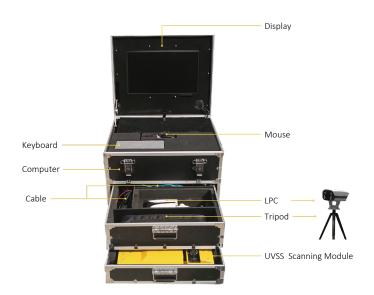


Portable Under Vehicle Surveillance System



- High Resolution Supporting 2 K Per Line and Maximum Image Resolution up to 20 MP
- Low Image Distortion
- Supports a Maximum Vehicle Speed of 80 kph (50 mph)
- Less Than One (1) Second to Synthesize Whole Vehicle Image
- Large Field of View, up to 170°, Captures the Entire Under Vehicle Image

System Overview

The Dahua Portable Under Vehicle Surveillance System (UVSS) uses machine vision technology to take a high-resolution image of the entire vehicle undercarriage to provide a top security solution. Portable UVSS is convenient for temporary vehicle checkpoints, such as exhibition centers, conference halls, temporary bases, and bridge checkpoints. The Portable UVSS system includes a monitor, keyboard, mouse, computer, LPC camera, scanning module, tripod, and cables.

Functions

Clear and Sharp Image

The UVSS scanning module adopts a high-resolution line scan camera with a 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.

Wide Speed Range

The recommended typical speed is 50 kph (31 mph), and the UVSS supports up to 80 kph (50 mph) for vehicle image capture in motion. Portable UVSS detects a vehicle's undercarriage image without requiring the vehicle to stop. The UVSS synthesizes the undercarriage image in less than one (1) second.

Professional and Accessible 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 comparison of the same vehicle or recognizing suspicious areas which help operator to improve efficiency.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Environmental

With a working temperature range from -35° C to $+70^\circ$ C (-31° F to 158° F), the UVSS scanning module is designed for extreme temperature environments. Subjected and certified by rigorous dust and water immersion tests, its IP68 rating makes it suitable for most harsh environments.

Storage Temperature

Technical Specifi	cations	Computer	
System		Processor	CPU: Intel Duo Core I5-4570, 3.2 GHz System Chipset: Intel H81 BIOS: AMI 64 MB SPI BIOS
Resolution	20 MP, maximum	Momory	8 GB DDR3L
Image Type	Color Image	Memory	
Field of View	170°	Storage	2 TB SATA HDD
Imaging Time After Exit Trigger	<1s	Graphics	VGA and HDMI, Maximum Resolution: 1920 x 1600,
Maximum Vehicle Speed	80.0 kph (49.70 mph) Recommended: <50.0 kph (31.07 mph)	Ethernet	Two (2) x 10/100/1000 Mbps; One (1) x 10/100 Mbp Line IN: Realtek HD Audio
Compatibility	Chassis Height: ≥ 80.0 mm (0.26 ft) Chassis Width: ≤ 4500.0 mm (14.80 ft)	Audio	Plus, one (1) Line OUT and one (1) MIC IN Serial: Two (2) x RS232
Load-Bearing	10 tons (22,000 lb)	1/0	USB: Four (4) x USB 3.0 and two (2) USB 2.0
Case Material	Stainless Steel	Operating System	Windows Professional 7 SP1, 64-bit, English
Power Supply	100 VAC to 240 VAC	Expansion	One (1) PCI Slot
Illumination	250 W Dynamic LED Array	Power Requirements	Input: 100 VAC to 240 VAC, 5 A to 3 A, 50/60 Hz
Weight	15.0 kg (33.07 lb)	·	Output Power Rating: 250 W
Dimensions	490.0 mm x 398.0 mm x 88.0 mm (19.29 in. x 15.67 in. x 3.46 in.)	Environmental	Operating Temperature: 0° C to +60° C (32° F to 140° Storage Temperature: -20° C to +80° C (-4° F to 176° Humidity: 95% RH at 40° C (104° F), non-condensing Vibration: 1 Grms Shock: 10 G, with 11 ms duration, half sine wave
Operating Temperature	−35° C to +70° C (−31 °F to 158° F)		
Operating Humidity	< 90% RH		EMC: CE, FCC Class A
Ingress Protection	IP68	Monitor	
Camera		Diagonal Size	20.7 in. (16:9 Aspect Ratio)
mage Sensor	1/2.8-in. 2 MP STARVIS™ CMOS	Resolution	1920 x 1080, Full HD
Effective Pixels	1920(H) x 1080(V)	Backlight	LED
Scanning System	Progressive	Brightness/Luminance	250 cd/m²
Minimum Illumination	Color: 0. 005 lux at F1.6 0 lux at F1.6 IR on	Display Colors	16.7 Million
Focal Length	2.7 mm to 12 mm	Contrast	1000:1
Max Aperture	F1.6	Angle of View	Vertical: 130° Horizontal: 178°
Angle of View	Horizontal: 101° to 36° Vertical: 53° to 20°	Response Time	5 ms
Focus Control	Automatic	Video Input	One (1) VGA (D-Sub); One (1) HDMI
Focus Distance Range	3 m to 8 m (9.84 ft to 26.25 ft)	Audio	Input: One (1) Channel Output: One (1) Speaker
/ideo Compression	H.265, H.264M, H.264H, H.264B		Power Input: 100 VAC to 240 VAC (±10%), 50/60 Hz
rame Rate	1080p at 30 fps	Electrical	Power Consumption, standard: 23 W Power Consumption, standby: ≤ 0.5 W
thernet	RJ45 (100/1000 Base-T)	Operating Temperature	0° C to +40° C (32° F to 104° F)
JVSS Controller		Operating Humidity	10% to 90%
Power Input	36 V, 600 W		
Power Output	Scan Camera: 36 V LED Modules: 32 V, 2.8 A, 80 W		
rigger	Input: Two (2) isolated channel signal of photoelectric input via loop sensor Output: Scan Camera, LED Modules		
Communication	Scan Camera: Gigabit Ethernet (1000 Mbps), RS485 Host PC: Gigabit Ethernet (1000 Mbps)		
Certification	CE, FCC, UL		
Operating Temperature	–35° C to +60° C (–31° F to 140° F), Less than 95% RH Initiate Startup above –35° C (–31° F)		

 -40° C to +70° C (-40° F to 158° F), Less than 95% RH

Ordering Information				
Туре	Part Number	Description		
Portable UVSS	DH-MV- VDM5021E-00			
Equipment Included		Monitor Computer Keyboard Mouse Camera Scanning Module Tripod Cables		
Accessories, opt	ional	Speed Bump (two pieces) Fixed Mount (1 piece)		

Accessories





Speed Bump x 2

Fixed Mount

Dimensions (mm)

