

Dahua UVSS (Under Vehicle Surveillance System) uses machine vision technology to grab the full and high resolution image of under vehicle to provide a high level security solution. Stationary UVSS is an ideal system for fixed applications to prevent illegal items from entering places such as prisons, milltary base, hotels and airport etc. PC-based client software provides an easy-to-use GUI which can review clear images of vehicle chassis, live video and image records.

Key Features



Clear and Sharp Image

- High resolution with 2K per line, max image resolution up to 20MP
- Low image distortion, high image grey level up to 11



High Efficiency

- Supports max 80km/h vehicle speed
- Less than 1s to synthesize a whole image



Full Integration

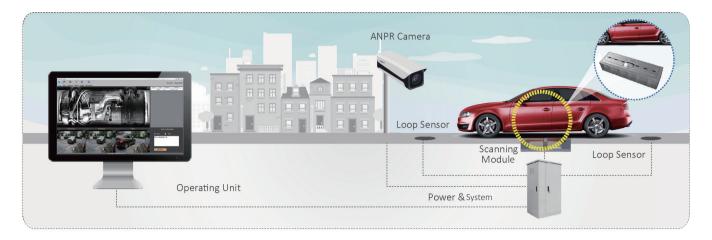
- Supports automatic number-plate recognition for various countries with ANPR camera
- Supports barrier integration and centralized management system(optional)



High Reliability

- Wide working temperature -35° C \sim + 70° C (Scanning Module)
- IP68 dustproof and waterproof (Scanning Module)

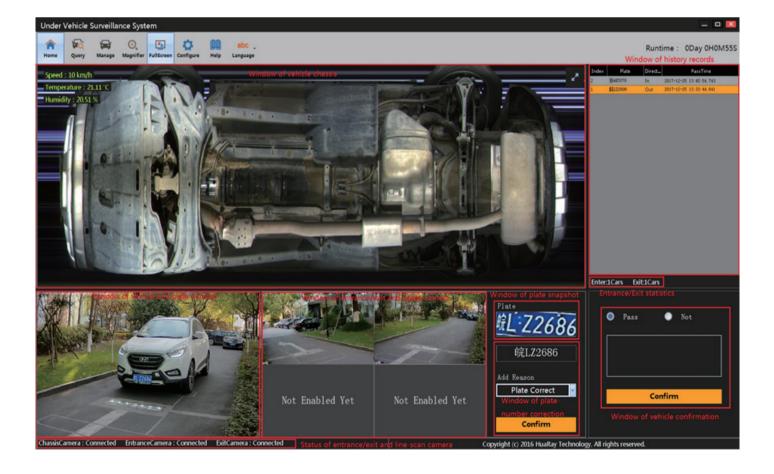
System Topology



- Loop sensor detects the moving vehicle.
- The image of the vehicle classis and the license plate will be captured at the same time then transferred to computer.
- The UVSS client presents the stitched image of full chassis and recognizes the license plate automatically.

UVSS 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.

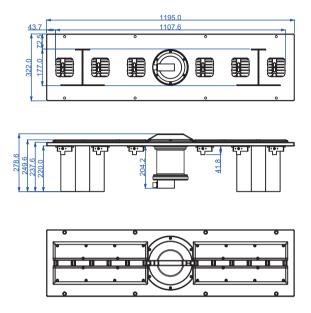


MV-VDB5020CE-00

UVSS-Scanning Module



Dimensions(mm)



UVSS | VDF5020CE-00

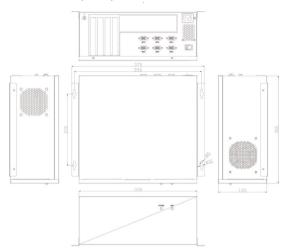
Resolution	2K
Field of View	180°
Imaging Time After Exit Trigger	<1s
Max Vehicle Speed	80km/h,49.7mph (recommendation<50Km/h,31mph)
Compatibility	Chassis height: ≥60mm(0.19ft) Chassis width:≤4500mm(14.8ft)
Load-Bearing	50T(110000lb)
Case Material	Stainless steel
Power Supply	100-240V AC
Illumination	480W dynamic LED array
Weight	50kg(110lb)
Dimensions	1195mm*322mm*278.6mm (47"*12.7"*10.9")
Operating Temperature	-35°C ~ +70°C(-31°F ~ 158°F)
Protection	IP68

ARC-3600-G3-00A5

UVSS-Computer



Dimensions(mm)



UVSS| ARC-3600-G3-00A5

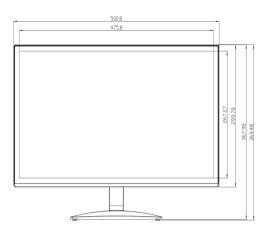
Processor System	CPU: Intel Corel5 - 4570, 3.2GHZ System Chipset: Intel H81 BIOS: AMI 64 MB SPI BIOS
Memory	8G DDR3L
Storage	1TB SATA HDD+128GB SSD
Graphics	VGA&HDMI supports max resolution 1920x1200@ 60hz
Ethernet	2*10/100/1000Mbps. 1*10/100 Mbps
Audio	Realtek HD Audio with Line - IN Line - OUT Mic-IN
Ю	Seral:2* RS232 USB:4*USB3.0+2*USB2.0
OS	Win Pro7 SP1 64-bit EN
Expansion Slot	1*PCI
Power	Great Wall Switch Power Supply AC input:100-24V~5-3A 60/50HZ
Dimensions	330mm*135mm*300mm(W*H*D)
Environment	Operating Temperature:0°C ~ 60°C Storage Temperature:-20°C ~ 80°C Relative Humidity: 95%@40°C (non-condensing) Vibration: 1Grms Shock: 10G(with 11ms duration, half sine wave) EMC:CE/FCC Class A

DHL22-F600-S

UVSS-Display



Dimensions(mm)





UVSS| DHL22-F600-S

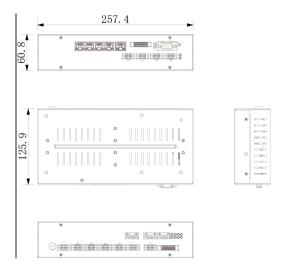
Diagonal 21.5"(16:9)		
	21.5"(16:9)	
Resolution 1920*1080(FHD)	1920*1080(FHD)	
Backlight LED		
Brightness/Luminance 200 cd/ m² (Standard)	200 cd/ m²	
Display Colors 16.7M	16.7M	
Contrast 1000:1	1000:1	
Angle of view 178°/178°(vertical/horizontal)	178°/178°(vertical/horizontal)	
Response time 5ms	5ms	
Standard VGA(D-Sub)*1/HDMI*1/Audio*1		
Optional -		
Standard Speaker*2		
Output Optional -		
Consumption(Standard) 25W	25W	
Consumption(Standby) ≤0.5W	≤0.5W	

VDC5641E-00

UVSS-Controller



Dimensions(mm)



UVSS | VDC5641E-00

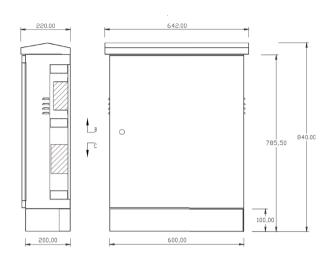
Power in		36V/600W
Power out	Scan Camera	36V
	LED modules	32V/2.8A/80W
	Input	Two isloate channels signal of photoelectric input via loop sensor
Trigger		Scan Camera
1118861	Output	ANPR Camera
		LED modules
Communication	Scan Camera	GIGE&RS485
Communication	ANPR Camera	GIGE
	Host PC	GIGE
Certifications		CE/FCC/UL
Operating Conditions		-35 °C ~+60 °C (-31 °F ~+140 °F)/Less than 95% RH *Start up should be done at above -35 °C (-40 °F)
Storage Conditions		-40 °C ~+70 °C (-40 °F ~+158 °F)/Less than 95% RH
Dimensions		257.4mm*125.9mm*60.8mm (10.1"*4.96"*2.39")

VDCA50E-00

UVSS-Power System



Dimensions(mm)



UVSS | VDCA50E-00

Technical Specifications

Swith Power-HRP-600-36

Voltage input	85~264V ; 120~370V	
Power Frequency input	47~63Hz	
Alternating current input	7.6A/115VAC ; 3.6A/230VAC	
Voltage output	DC 36V	
Rated Current	17.5A	
Current Output Range	0 ~ 17.5A	
Voltage Output Range	28.8V ~ 39.6V	
Rated Power	630 W	
Leakage Current	<1.2mA/240VAC	
Power overload	105% ~ 135% rated power	
rowel overload	Protection mode: current-Limiting	
Voltage overland	41.4 ~ 48.5V	
voitage overland	Protection mode: switch off output	
Over Temperature	Protection mode: switch off output	
Operating Conditions	-40°C ~ +70°C (-40°F ~ +158°F) Less than 95% RH	
Storage Conditions	-40 °C $^{\sim}$ +85 °C (-40 °F $^{\sim}$ +185 °F) Less than 95% RH	

Technical Specifications

Air Switch-IC65N-2P-C10

Power Input	400V /230V
Rated Current	10A
Breaking Current	6000A
Thermal Release Temperature	30 C
Insulation Voltage	500VAC
Impulse Resistance Voltage	6KV
Electrical Life	10000 Times
Mechanical Life	20000 Times
Operating Conditions	-35°C ~ +70°C (-31°F ~ +158°F)
Storage Conditions	-40°C ~+85°C (-40°F ~+185°F)

Technical Specifications

Lightning Preventer-DXH06-FCS/1+1R40

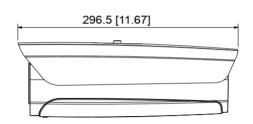
Max Continuous Working Voltage	385V
Nominal Discharge Current	20KA(8/20 μs)
Max Discharge Current	40KA(8/20 μs)
Protection Mode	L-N,N-PE
Protection Level	≤1.8KV
Response Time	<20ns
Grounding Resistance	≤4Ω
Operating Conditions	-40 $^{\circ}$ C $^{\circ}$ +70 $^{\circ}$ C (-40 $^{\circ}$ F $^{\circ}$ +158 $^{\circ}$ F)/Less than 90% RH

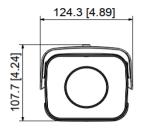
DHI-ITC215-PW6M-IRLZF

UVSS-ANPR

Dimensions(mm)







UVSS | DHI-ITC215-PW6M-IRLZF

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)

FVN1.5

UVSS-Loop Sensor



UVSS | Loop Sensor-FVN1.5

Technical Specifications		
Cross Section	1.5mm ²	
Working Voltage	≤AC250V/DC500V	
Flame Retardant Rating	105°C	
Protective Cover	FVN	
Operating Condition	-60 °C ~ +80 °C /Less than 98% RH	

Ordering Information

P/N	Model Name	Description
1.0.01.36.10382	DH-MV-VDF5020CE-00	Classic UVSS Kits, including of UVSS scanning module, ANPR, industry computer, controller power system, loop sensor and related accessory.
1.0.01.36.10945	DH-MV-VDF5021CE-03	Lite UVSS Kits, including of UVSS scanning module, industry computer, controller power system,loop sensor and related accessory.

*Design and specifications are subject to change without notice.



Fixed Under Vehicle Scan System - 02, Aug 2017

