MV-PD030001-01 (PS)

Under Vehicle Surveillance System (Fixed Type)

MV-PD030001-01 under vehicle surveillance system (fixed type) is an information management system that integrates with automated collection of under vehicle images, display, storage and comparison function. Display camera and CPU's temperature, humidity, atmospheric pressure and other parameters. Through accurate and real time scanning of vehicles, the whole and complete image is displayed synchronously on the screen and sorted to storage according to demands. The system can effectively prevent hidden bomb, weapons, prohibited goods, and dangerous person under vehicle from entering and exiting important places, and keep carrying drugs, illegal smuggling from passing through checkpoints. This UVSS improves the detection speed and accuracy, while human resources and capital investment have been cut.
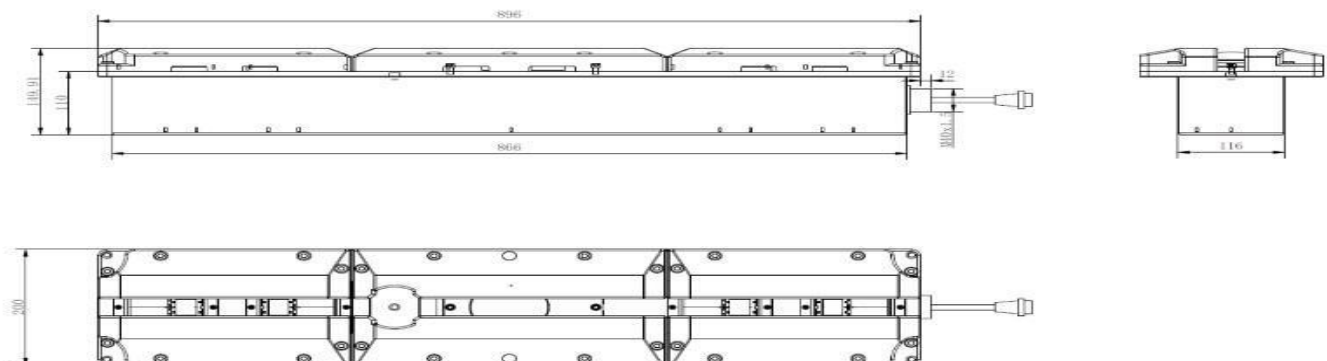
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Functional Characteristics：

- Resolution $\leq 2048 \times 16800$, supports multiple images stitching display. Matches high speed and non-uniform movement.
- FOV 180°, especially designed for distortion optimization.
- Supports two image acquisition methods, fully automatic including ground sensing self-trigger (coil trigger) and manual trigger. Associates with license plate information to contrast the historical images of the vehicle.
- Affords the rolling of heavy vehicle with waterproof, anti-fog, control air circulation system, anti-corrosion design
- Professional illumination design, especially designed for optimizing under vehicle application environment.
- Provides ISAPI protocol and related SDK for third-party platforms accessing.

Outline Dimensional Drawing：

Technical Data Sheet

Model / Technical Data	MV-PD030001-01（PS）	
	Under Vehicle Surveillance System (Fixed Type)	
Performance(Host)		
Resolution	2048*16800: 20 million pixels	
Vertical resolution	2048 Pixels CMOS	
Field of view	180°	
Maximum scan rate	26 KHz	
Vehicle chassis width	≤4500mm	
Vehicle chassis height	≥40mm	
Detection speed	≤120Km/h	
Imaging time after Exit Trigger	<1s	
Picture format	JPEG	
Load-bearing	50 t	
Image Automatic Storage and Deletion	Saves no less than 200,000 pictures; automatically deletes expired pictures	
Lighting	4*90W,four single sealed LED surface light sources, lifespan: .50,000	
Electrical feature(Control Cabinet)		
Power supply	100-240V AC，50/60 Hz	
Max. power consumption	200W	
Scanner data cable	Standard 15 meters length can be customized	
Scanning Direction	Bidirectional	
Scanning Device size	900*200*110mm	
Mechanical(Host)		
Temperature	Working temperature:-40℃~+85℃	
Ingress protection	IP68	
Weight	47kg	
Display Method	Large format landscape display	
Image Quality Adjustment Function	Adjusts saturation, contrast, balance, sharpening; magnification >16 levels	
Mechanical(Control Cabinet)		
Temperature	Working temperature:-20℃~+70℃	
Weight	43Kg	
Working Voltage	DC 12V+DC48V	
Multiple sealing design for Chassis imaging design	Anti water, anti dust, anti damp, anti frost, anti fog, anti crush, high strength and pressure resistant	
Industrial Computer		
CPU	Intel® Core™ i3-7100U	Intel® Core™ i5-8500
Memory	8GB	
Storage	500G HDD	128G SSD + 2T HDD

Video Output	HDMI &Display Port Supports max resolution HDMI 1.4 (4096x2304@24Hz) HDMI 1.4 (1920x1080@60Hz) DP 1.2 (4096x2304@60Hz) DP 1.2 (1920x1080@60Hz)	HDMI&VGA Supports max resolution 1920x1080@60hz
Ethernet	4*RJ45，10/100/1000Mbps	6*RJ45，10/100/1000Mbps
IO	Serial: 4* RS232 USB: 4*USB3.0 (external)	Serial: 2* RS232 USB:4*USB3.0+4*USB2.0 (external) 1*USB2.0 (built-in)
Expansion Slot	1*PCIE	
Dimensions(W*D*H)	200 mm × 140 mm × 40 mm	161.4 mm × 208.5 mm × 105.5 mm
Operating system	Windows 10	

Scene Simulation