Specialized
Parts Supplies LLC

AI 4G Video Telematics & Vehicle Safety Solutions

360°

MDVR

BSD

DMS

CMS

ADAS

RADAR

WIRELESS



www.spsuae.com

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Why STONKAM?

- OEM & ODM;
- Self-developed AI algorithm;
- Long-term partnerships with Global 500 companies;
- 96% export rate;
- Multilingual technical support;
- Innovative and quality vision products for a better life.



500+ Employees

140+ Senior Engineers

100+ Patents

10M+ Products in Operation

Milestone

2003
STONKAM CO., LTD was established

2005
Production Expansion & Relocation

2007
Annual sales exceeded 10 million US dollars

2010
ISO / TS 16949: 2009
ISO 9001: 2008

2016
Annual sales exceeded 30 million US dollars

2019
Set up AI algorithm team

2021
Production Expansion & Relocation

2022
Annual sales exceeded 70 million US dollars

2024
Annual sales exceeded 95 million US dollars
Factory in Thailand

ISO 26262 ISO 21434 IATF 16949:2016 ISO 9001:2015 CNAS CMMI3 R46 / R10 / R118

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a better vision for the world

Pedestrian & Vehicle Detection



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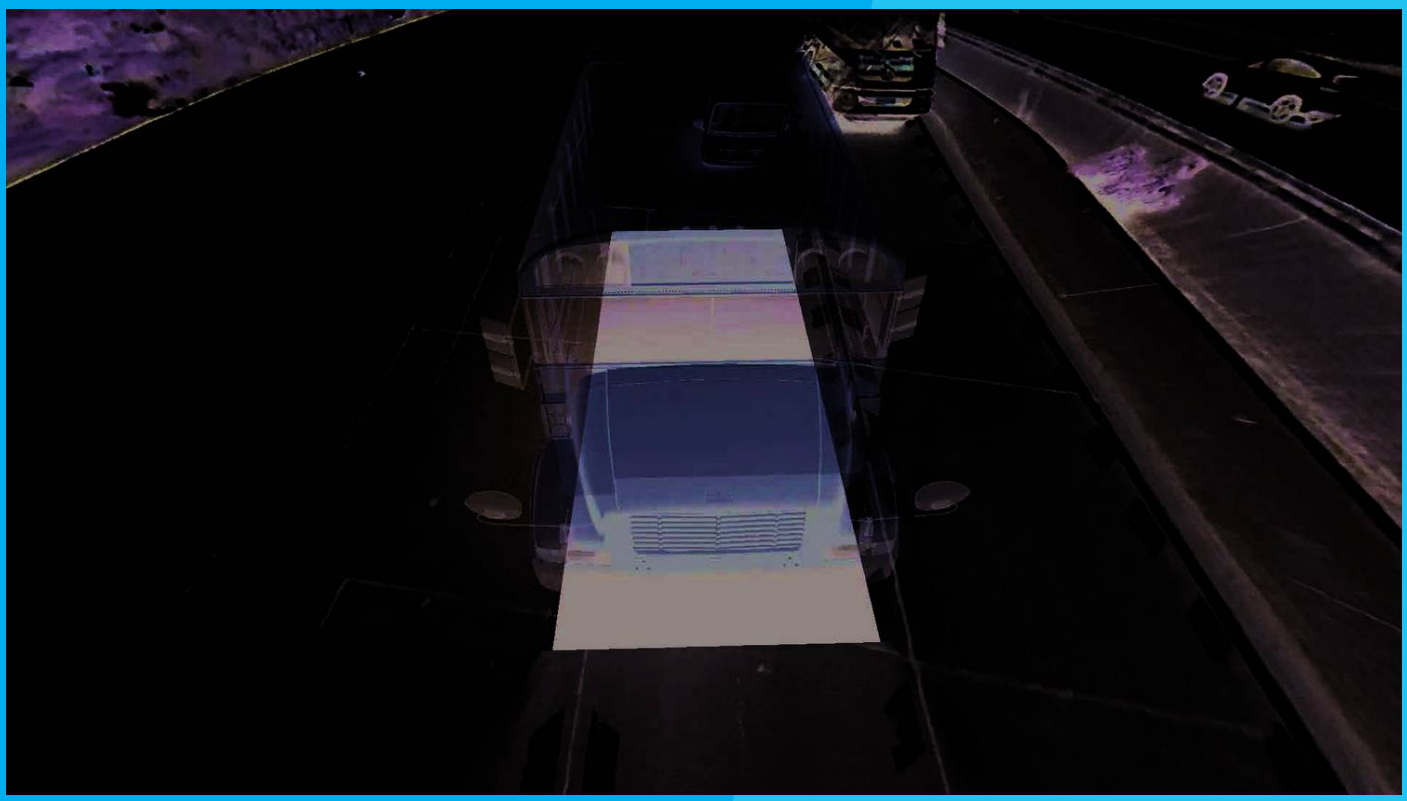
Radar 33

DDAW UN ECE R151 / R158 / R159 ISA E-MARK C-TICK SAE RED FCC CE ROHS MIC

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AI 360° Vision System

3D Effect Support Super Rearview Mirror





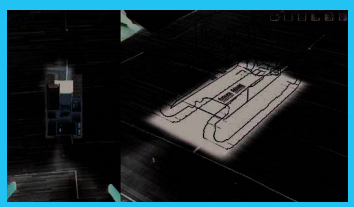
Panoramic ultra-wide angle lens distortion correction



Pedestrian & vehicle detection



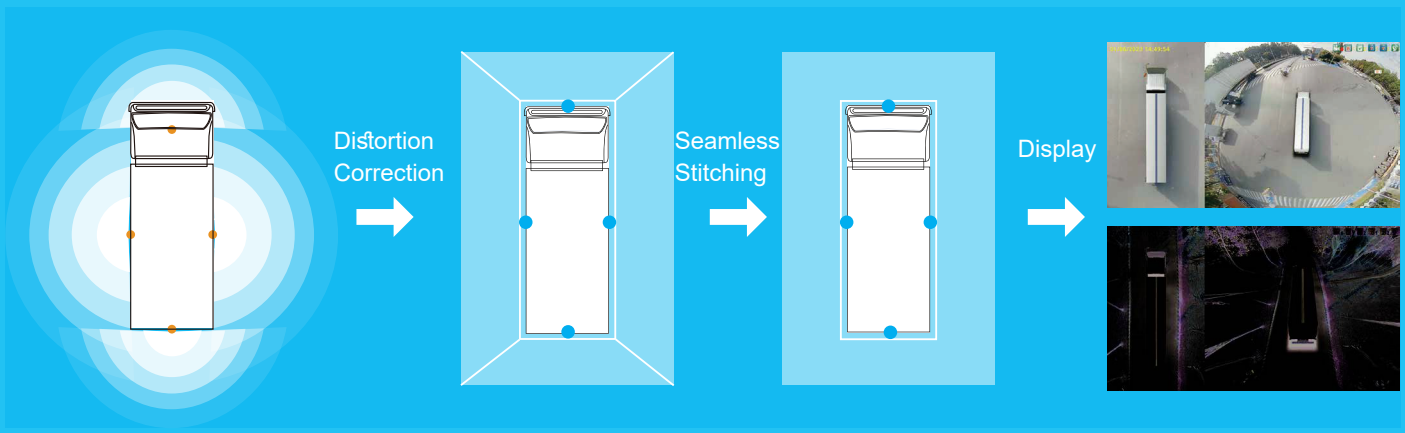
Support radar access and parking sensor system (Can connect to 6CH microwave radar or 12CH ultrasonic radar)



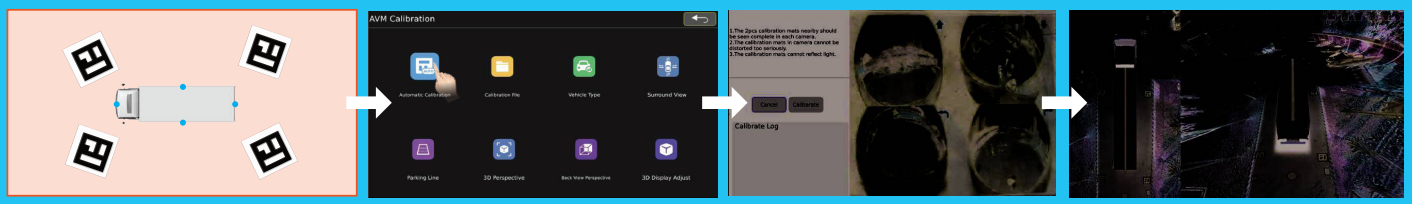
Transparent strips

360° Seamless Stitching & Panoramic Image Synthesis

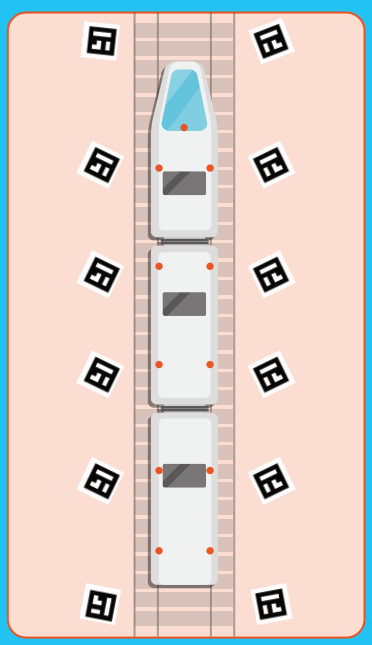
360° Around View + Pedestrian Detection System provides a true 360° panoramic bird-view, monitoring with no blind spot to ensure driving safety. It is the best choice to assist vehicle driving for bus, truck, ambulance, and limousine, etc.



Automatic Calibration within 1 Minute



The First Panoramic Image Technology Deployed on Ultra-long Vehicles- a Breakthrough from Zero to One



Overcome the problem of automatic & rapid calibration of ultra-long vehicles with multiple cameras. Specialize in mixed-right-of-way vehicles such as heavy-duty trackless trains / large ships / double-section trailers / railway maintenance vehicles.





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AI 360° Monitors

- No control box; 360° algorithm integrated into monitor with quick boot;
- Dual AI cores with 2TOPS computing power ensure smoother, more precise performance;
- Support 4CH BSD + FCW, FCW uses the front fisheye camera with a 40m detection range;
- Automatic calibration finished within 1 minute;
- All calibration via touch screen (no remote control required);
- 3D / 2D switchable, with super-mirror rear view;
- Integration with pedestrian detection camera and radar system;
- Support external GPS signal input.







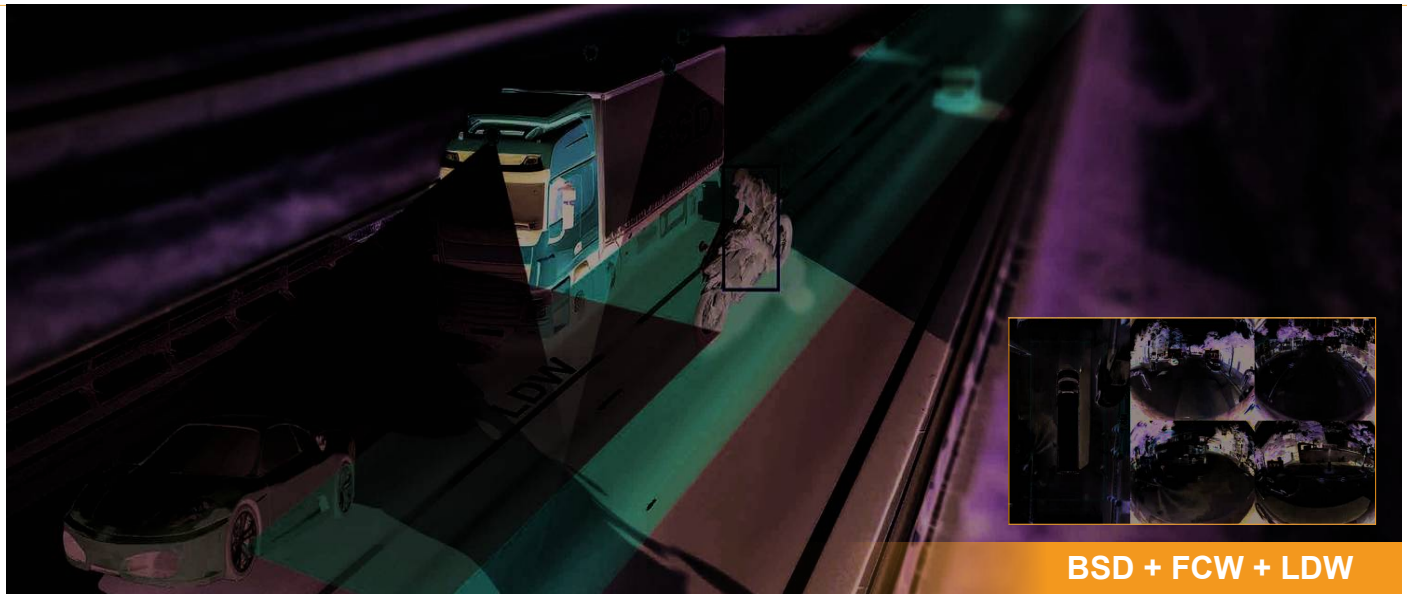
4CH / 6CH AI 360° AVS System

- 4CH / 6CH 1080P input / output; Split-view mode; Quick boot;
- Dual AI cores with 2TOPS computing power ensure smoother, more precise performance.
- Compliant with R151 + R158 + R159 regulations
- Switchable 3D/2D mode with super-mirror rear view;
- Automatic calibration within 1 minute;
- All calibration via touch screen (no remote control required);
- 2 * 512 GB SD Cards (BVA17P); Max. 1 * 2T SATA SSD + 1 * 256GB SD Card (BVA18P);
- IP camera; RTSP video output;
- Support 4G cloud platform management;
- Support BSD + LDW + FCW, FCW uses the front fisheye camera with a 40m detection range.;
- Integrated pedestrian-detection camera and radar system;
- Operating temperature: -20ºC ~ 70ºC;
- Compact control box, with GPS tracking.





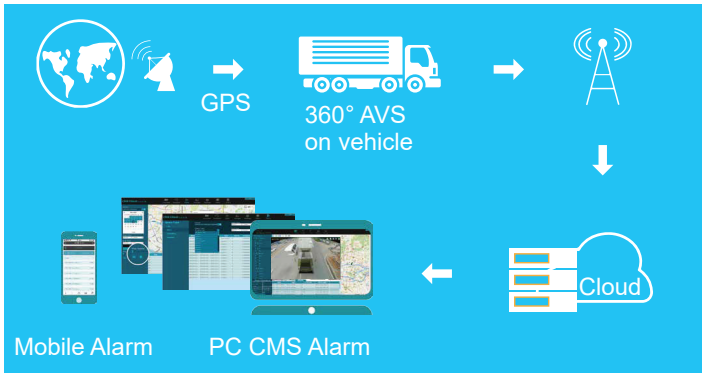






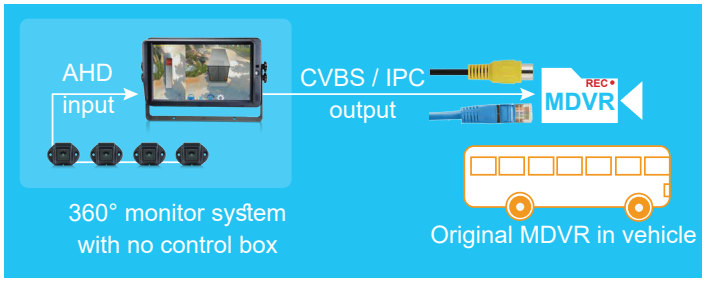
360° 4G remote and real-time video and image streaming for HD monitoring

Support Full HD (1080p) video streaming and recording, with optional HD (720p) and SD (540p) resolutions. High-definition video files can be accessed in real time via PC-based CMS platforms and mobile applications.



AI 360° monitor + MDVR

The 360° monitor can be connected to the existing MDVR as a camera input for recording use, it can help the MDVR to achieve AI 360° + MDVR functionality.

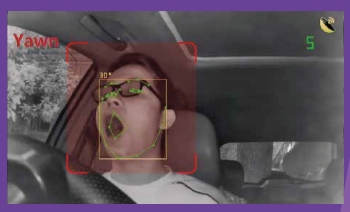


AI Cameras





Pedestrian & Vehicle Detection



Driver Status Detection



Target Tracking



ID Recognition



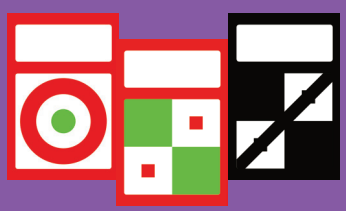
Super-resolution Reconstruction



Image Segmentation



Camera Occlusion Detection



Sign Recognition


BSD
360AVM
DMS
ADAS
APC

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DDAW



DMS31

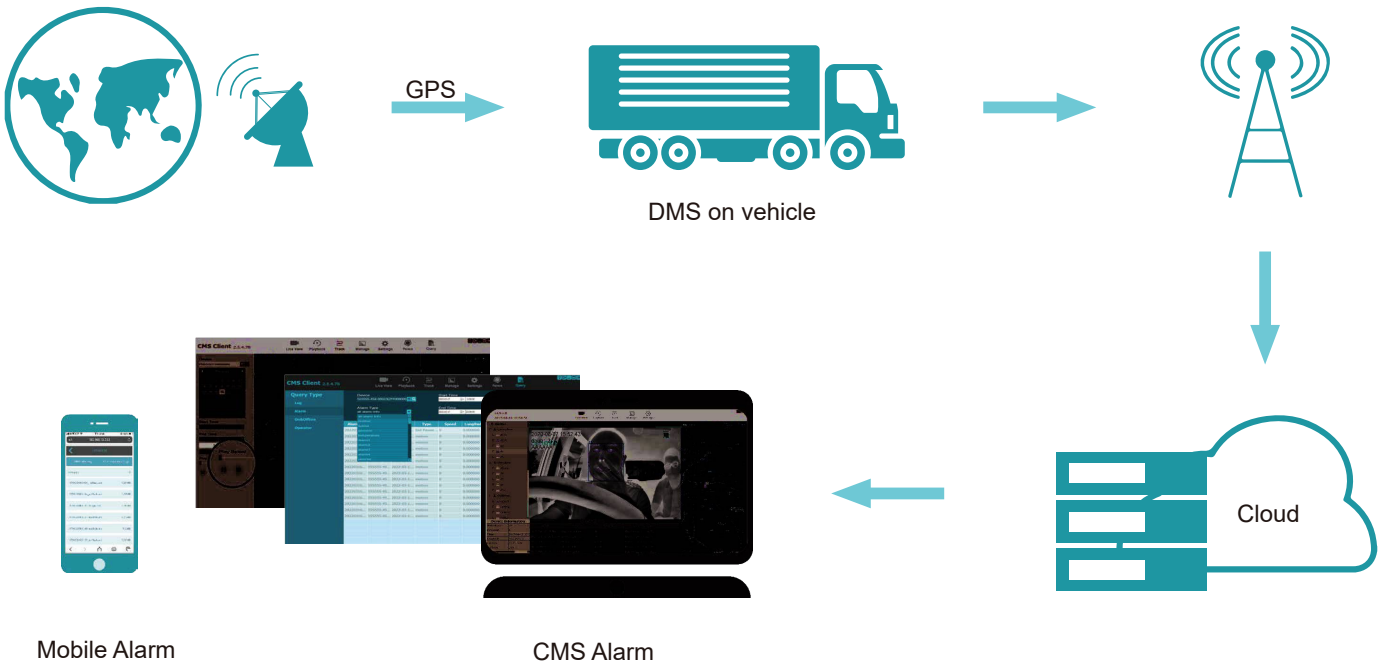


FHD831

Driver Monitoring System

- 1080P face recognition & driver identification technology;
- Real-time detection and alerts for driver abnormal status: fatigue / distraction / smoking / calling / camera occlusion / no driver / no mask / no seat belt / IR blocking glasses;
- Support 1 * 128GB micro SD card & Wi-Fi / GPS / 4G;
- Real-time upload of event alerts and recordings.

DMS camera with built in 4G, Wi-Fi and GPS, it can transmit video and driver status alarms directly to platform and server, no need to connect with extra DVR, simple and cost effective for your fleet.





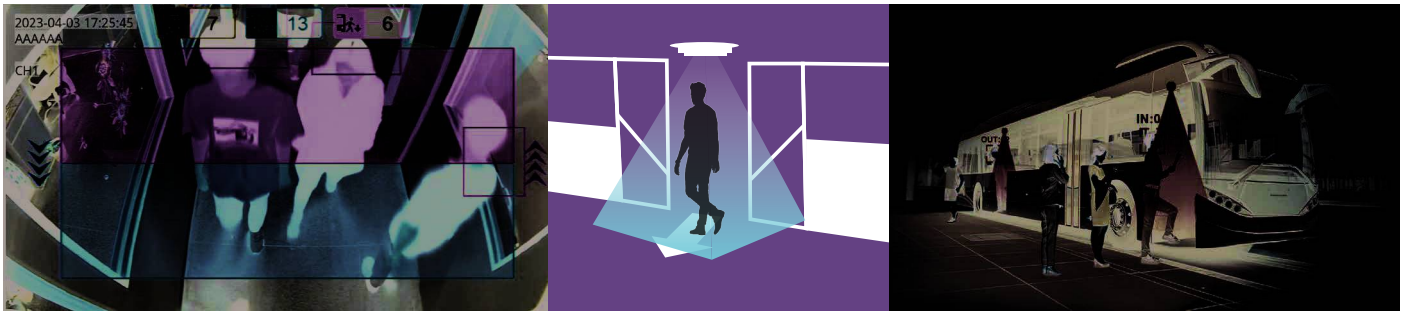


ADA900

ADA38

AI Automatic Passenger Counting Cameras

- Intelligent passenger count camera, deep learning vision technology;
- Support overall image collection of target tracking, monitoring and counting integration;
- Anti-wandering counting, visualize accurate data;
- Easy installation.



640 * 512
316m identification distance



TC639-T6

256 * 192
80m identification distance



TC639-T2

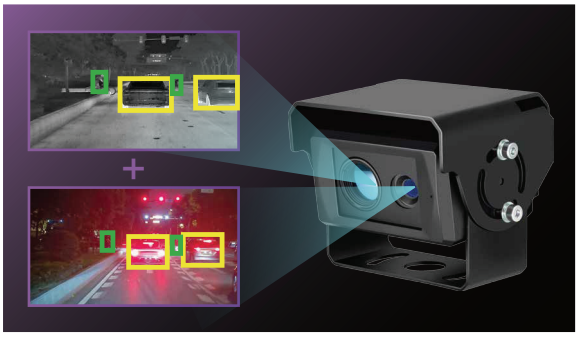
384 * 288
220m identification distance



TC639-T3

AI Dual Spectrum Thermal Cameras

- Dual display: infrared & visible light, multiple display modes
- Front view / rear view /other optional;
- Intelligent detection of pedestrians, vehicles, animals;
- Super penetrating through glare and dust, guarantee safe driving in harsh environments;
- Support alarm audio output of loudspeaker equipment.









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R151 System (BSIS)



ADA46



Exterior Alarm Indicator (optional)



Interior Alarm Indicator

- UN ECE R151 certified;
- Dual-lens combination for wide range detected area guarantee road safety;
- Prediction & precaution, detecting and warning dangerous to reduce accidents;
- Target recognition & distraction filtering, accurate and reliable risk identifications with AI power;
- Real-time local alarms, inside and outside notifications for driver and pedestrians respectively.

R159 System (MOIS)



ADA38



Exterior Alarm Indicator (optional)



Interior Alarm Indicator

- UN ECE R159 certified;
- AI pedestrian detection warning, identify all types of pedestrians / vehicles in blind spots;
- 1080P video output, real-time audio alarm driver;
- Front view monitoring;
- Horizontal viewing up to 170°;
- IP69K waterproof, Anti-vibration:ISO 16750-3 Max 5.9G.

AI BSD Camera

- AI Intelligent pedestrian detection warning, identify all types of pedestrians / vehicles in blind spots;
- 1080P video output, real-time audio alarm driver;
- Side / rear / overlook view monitoring, horizontal viewing up to 170°;
- IP69K waterproof, Anti-vibration: ISO 16750-3 Max 5.9G.

Wi-Fi configurable



AC575



ADA32P



ADA32



ADA657



ADA650



ADA37



ADA38



ADA656



ADA410



ADA844

Vision Solution of BSD Cameras



Door View



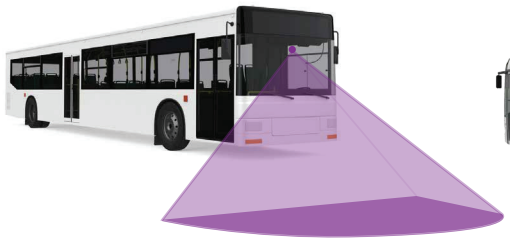
Side View



Corner View



Side View



Front View



Rear View

Compliant with UN ECE R151 / R158 / R159 / DDAW / ISA

RVCS

Rear View Camera System
UN ECE **R158** Regulation Area



FHD38XS



FHD639



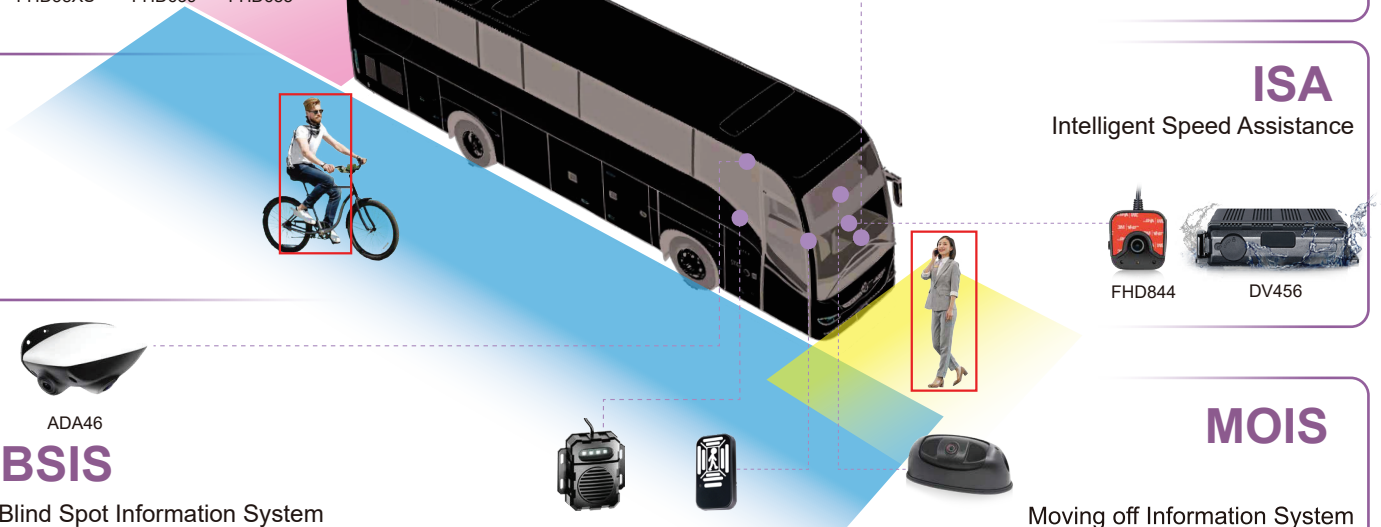
FHD685

DDAW

Driver Drowsiness and Attention
Warning Systems



DMS31P



ISA

Intelligent Speed Assistance

FHD844

DV456

ADA46

BSIS

Blind Spot Information System
UN ECE **R151** Regulation Area

AC501

AC601

ADA38

MOIS

Moving off Information System
UN ECE **R159** Regulation Area


FHD406L


FHD410L


FHD767L


FHD676L


FHD407L


FHD639L

LVDS Camera

- High definition image quality, using digital signal transmission, signal stability and strong anti-interference ability, can provide clearer image quality, especially in complex lighting or low-light environment better performance;
- Real-time, LVDS technology allows for faster data transfer, which is critical for driver safety.

AI


ADA32E

AI BSD BroadR-Reach Camera

- Support multiple network protocols, including ONVIF, RTSP, ISO17215 etc;
- AI Intelligent pedestrian detection warning, identify all types of pedestrians / vehicles in blind spots;
- Better real-time effects;
- It can provide clear images in various application scenarios;
- Support upgrade and pull stream function, support AVTP to third-party platform, make your video management easier and more efficient;
- IP69K waterproof, suitable for outside vehicle application.


FHD228N


FHD676N


FHD844N


ADA32N


FHD086N


FHD085N


FHD804N

IP Cameras

- Support multiple network protocols, including ONVIF, RTSP, ISO17215 etc;
- 1080P / 500MP images of driving records and road conditions;
- With ir-cut and night vision;
- Support H.264 / H.265 encoding;
- Support upgrade through network cable firmware;
- Original / mirror adjustable;
- DC power: DC 12V / DC12~24V;
- IP69K waterproof and dustproof, good performance even in rainy and snowy days.

Front View Cameras



FHD813



FHD801



FHD804



FHD803



FHD844



FHD676



FHD676 + AC513

Side View Cameras



FHD406



FHD410



FHD407



FHD38XS

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Dome Cameras



FHD900



FHD902



FHD767



FHD069



FHD062



FHD769



FHD770

Rear View Cameras



FHD650



FHD657



FHD073

R158



FHD639



FHD087



FHD086

R158



FHD685



FHD656M



FHD635



FHD635M

R158



FHD38XS



FHD664

Forklift Cameras
Mini Cameras
Bullet Cameras
License Plate Cameras



FHD814P



FHD808



FHD638



FHD637



FHD085



FHD636



FHD670



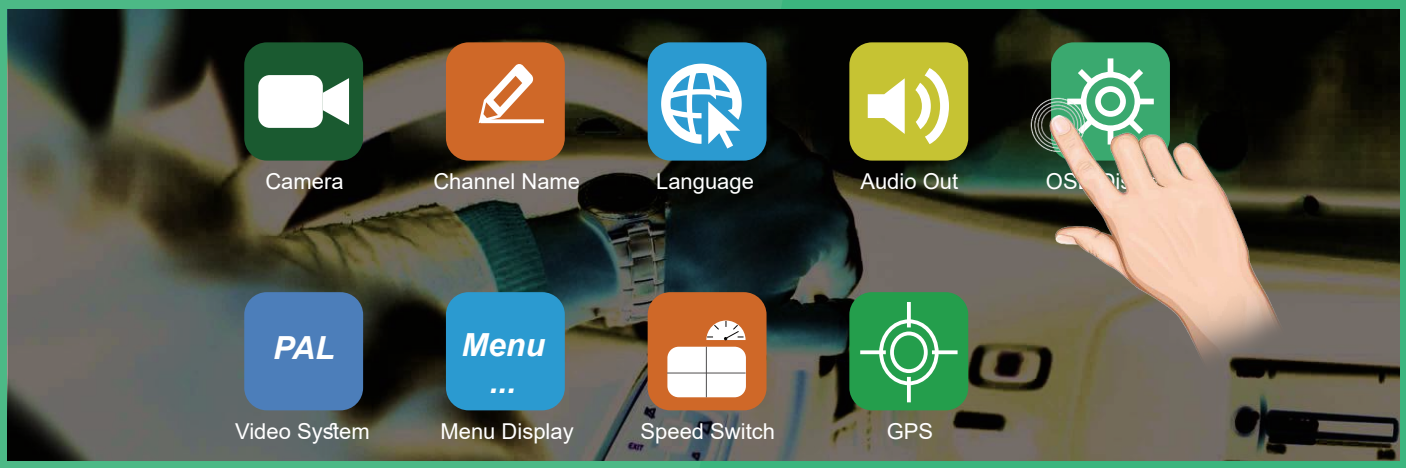
FHD646



FHD642

AI CMS & AI Monitor



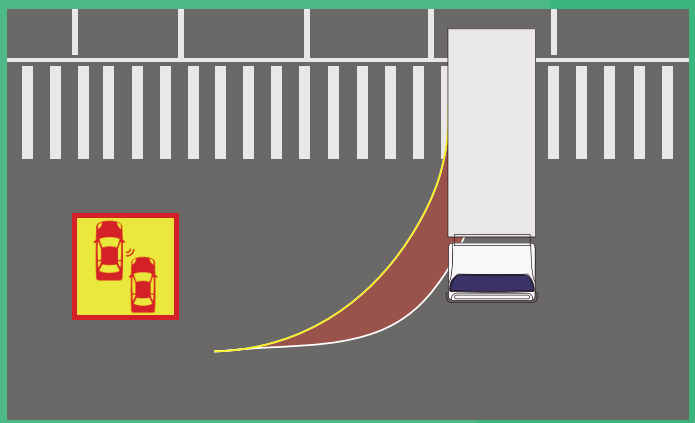


Advanced Vision Technology Ensures Optimal, Reliable Performance

The CMS with high-definition (HD) cameras and interior monitors. Common blind spots are eliminated with robust and dependable camera which provides two fields of view: normal rearview (Class II) and wide angle views (Class IV). By integrating an additional passenger-side Class V camera in the same housing, potential turn collisions with other motorists, pedestrians, and physical obstacles such as extended mirrors of other vehicles, light posts and curbs are prevented.

AI Assisted Lane Change

Before changing lanes, sound and light will be used to remind the vehicle coming from behind, and the driver will be proactively warned to drive safely.



AI Blind Spot Detection

It can monitor and warn pedestrians and vehicles in blind spots, and proactively remind drivers to pay attention to safe driving.

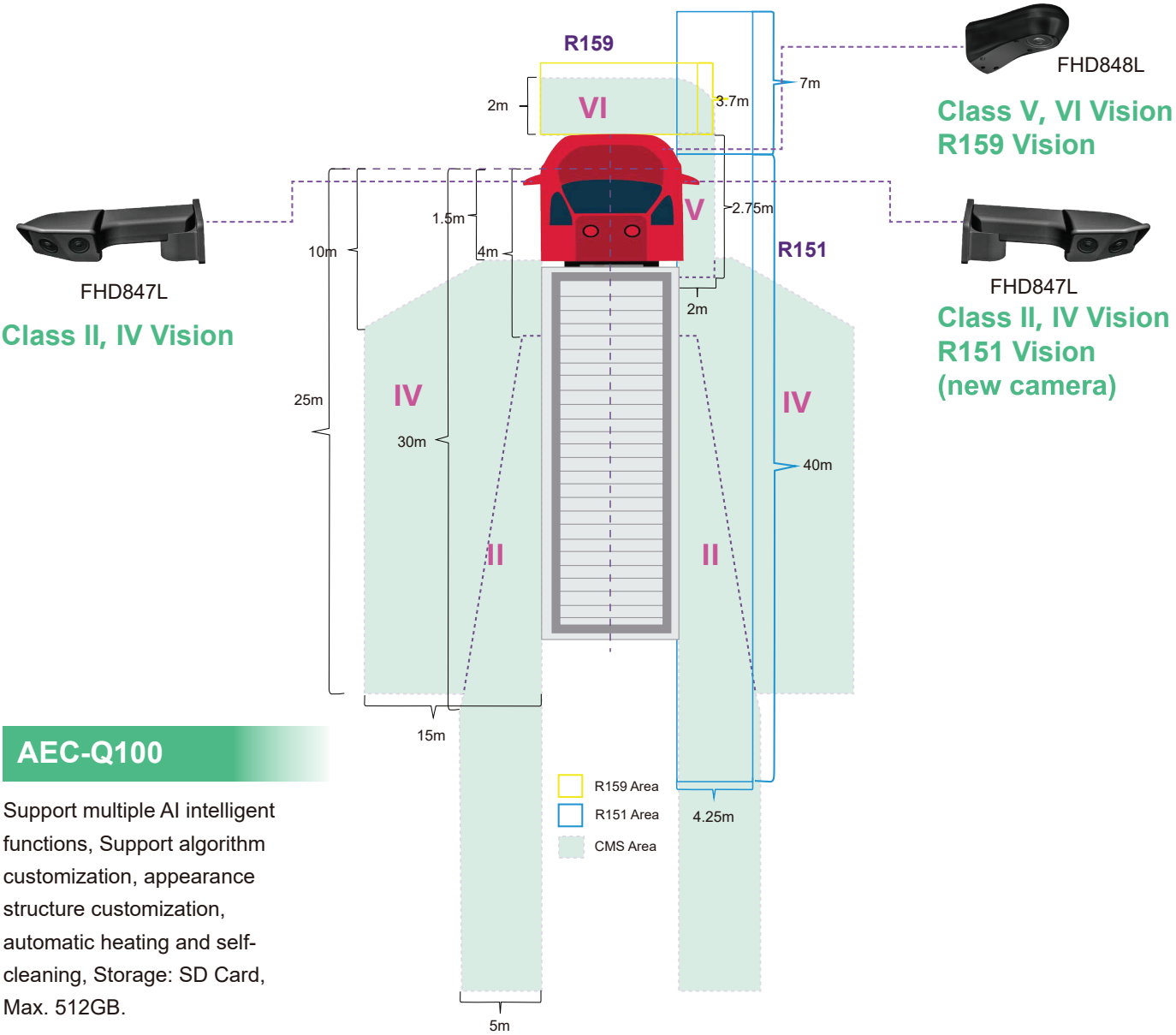


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AI CMS compliant with ISO 26262, UNECE R151, R159 certification



ISO 26262, R46, R151, R159, R118, R10, GB15084-2022



FHD848L

Class V, VI Vision
R159 Vision

FHD847L

Class II, IV Vision

FHD847L

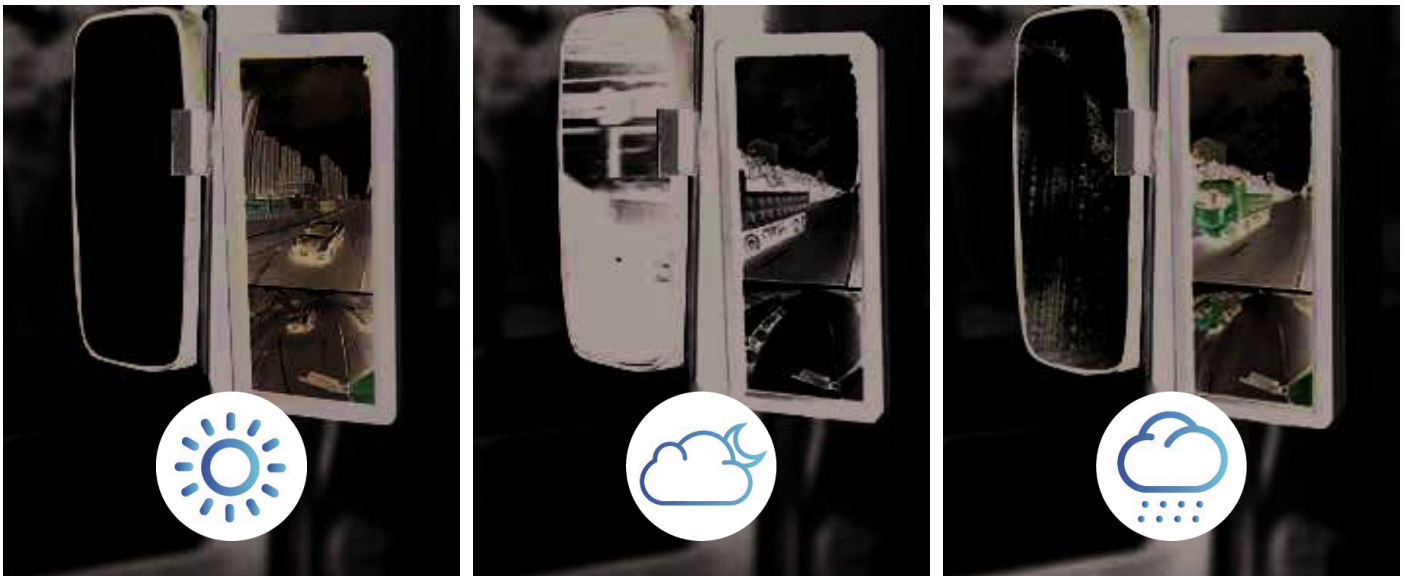
Class II, IV Vision
R151 Vision
(new camera)

AEC-Q100

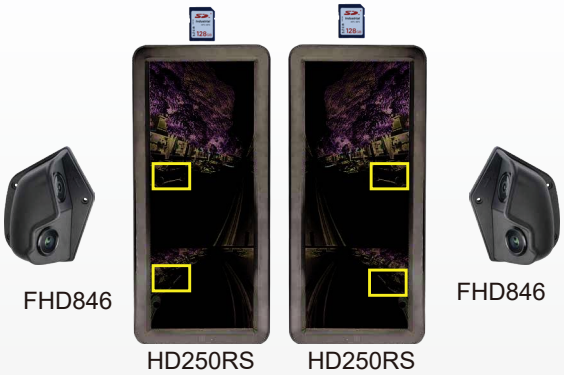
Support multiple AI intelligent functions, Support algorithm customization, appearance structure customization, automatic heating and self-cleaning, Storage: SD Card, Max. 512GB.

Augmented and enhanced vision quality

Equipped with self-cleaning and defrosting functions, the system enhances vision quality during adverse weather conditions eliminates issues related to rain, snow and ice. An advanced image rendering system also blocks sunlight reflections, and superior infrared-enhanced color night vision improves the range of low-light performance ensuring optimal visibility at night. As a result, bus drivers have an optimal view of the surrounding night-time traffic compared to conventional mirrors. In addition, the system offer clear color vision, allowing for glare reduction, less eye strain and less fatigue for drivers.



Class II, IV Vision CMS



R46, R118, R10, GB15084-2022, CE...

Class V, VI Vision CMS



Other applications

3CH Mirror Monitoring



6CH 360° AVM



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Quadview Monitors

IP66



HD140D (7")



HD122D (7")



HD264D (7")

AI, IP66



HD277RS (7")



HD148D (9")



HD146D (9")



HD291D (10.1")

AI, IP66



HD297RS (10.1")

Specifications

Model	HD148D	HD140D	HD122D	HD277RS	HD264D	HD146D	HD291D	HD297RS
Input	Support 1080P / 720P / CVBS camera inputs							
Anti-vibration	ISO 16750-3 2.13G							
Audio Output	1W							
Power Supply	ACC + VCC (10 ~ 32V)	ACC (10 ~ 32V)		ACC + VCC (10 ~ 32V)	ACC (10 ~ 32V)			ACC + VCC (10 ~ 32V)
Power Supply	ACC (10 ~ 32V)							
Power Consumption (without cameras)	Max.15W							Max.20W
Resolution	1024 * 3(RGB) * 600							
Contrast	800:1						700:1	
Brightness	650cd/m^2	600cd/m^2				650cd/m^2	600cd/m^2	
Viewing Angle	U: 85°, D: 85°, L/R 85°							
Operating Temperature	-20ºC ~ +70ºC, RH90%							
Storage Temperature	-30ºC ~ +80ºC, RH90%							

Regular Monitors



HD714D (5")



HD127D (7")

IP66



HD125D (7")



HD121D (7")

IP66



HD277D (7")



HD261D (7")



HD138D (9")



HD295D (10.1")

IP66



HD297D (10.1")

Specifications

Model	HD714D	HD127D	HD125D	HD121D	HD261D	HD277D	HD138D	HD295D	HD297D
Input	Support 1080P / 720P / CVBS camera inputs								
Anti-vibration	ISO 16750-3 2.13G								
Audio Output	1W								
Power Supply	ACC (10 ~ 32V)								
Power Consumption (without cameras)	Max.8W	Max.10W							
Resolution	800 * 3(RGB) * 480	1024 * 3(RGB) * 600							
Contrast	700:1						800:1	700:1	
Brightness	350cd/m^2	600cd/m^2					650cd/m^2	600cd/m^2	
Viewing Angle	U: 85°, D: 85°, L/R 85°								
Operating Temperature	-20ºC ~ +70ºC, RH90%								
Storage Temperature	-30ºC ~ +80ºC, RH90%								

AI 4G Video Telematics

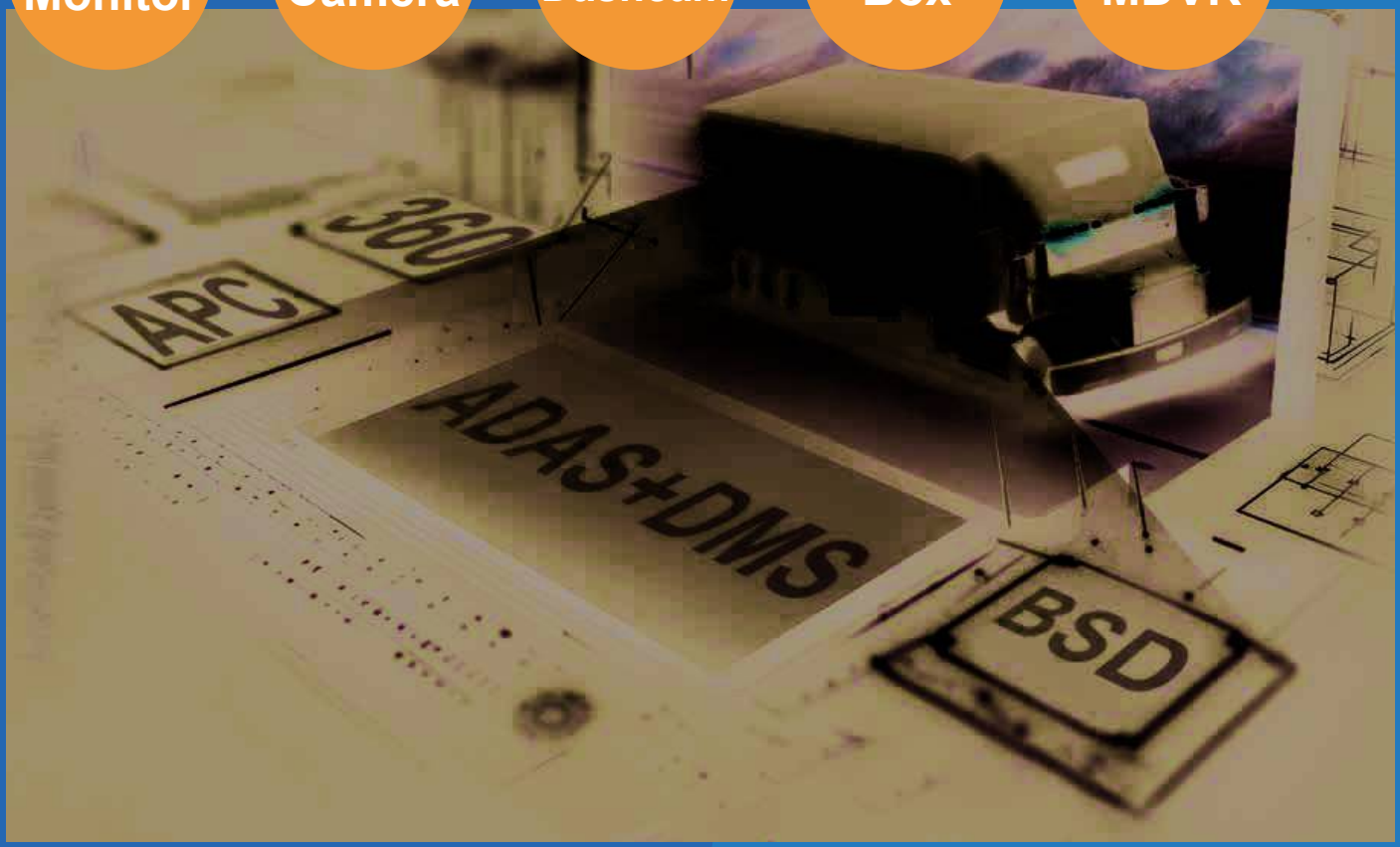
AI 4G Monitor

AI 4G Camera

AI Dashcam

AI Box

AI MDVR





Operation Visibility

Get real-time access to fleet status with live stream



Driving Assistance

Help reduce accidents caused by lacking operation experience of large vehicles



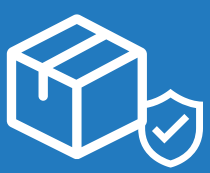
Driver Exoneration

Access to the video of accident instantly with cloud-connected platform



Driver Coach

Make driver coach easier than ever with intelligent harsh event capture



Cargo Surveillance

Eliminate potential security threat

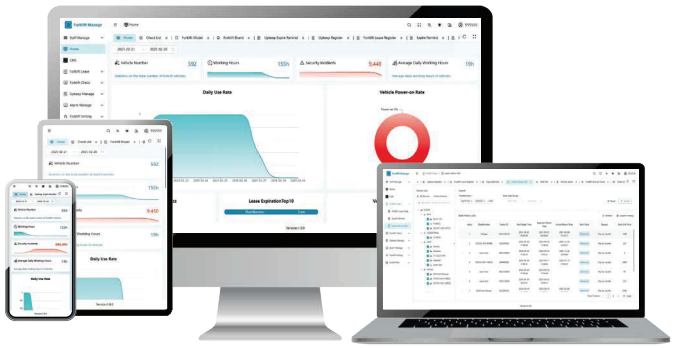


Meet Compliance Requirement

Keep fleet compliant with local regulation

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AI 4G Video Telematics



Report Analysis

- Checklist of Driver-Vehicle Inspection Report (DVIR);
- Icon display of Vehicle Usage;
- Abnormal phenomenon alarms;
- Efficiency and safety report analysis.





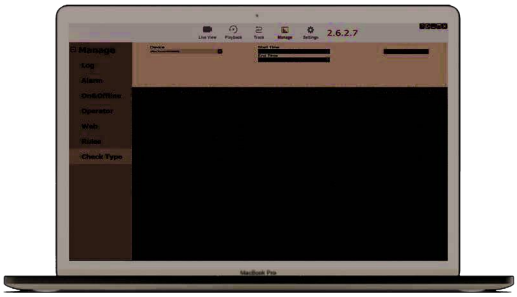
Real-time HD video surveillance

- 1080P high definition image quality;
- Real-time video preview, historical video playback;
- Real-time monitoring of driving routes;
- Fast HD forensics on video files.



Accurate vehicle positioning

- GPS positioning, real-time query vehicle track, vehicle history track playback;
- Real-time display of vehicle traveling data and operating conditions;
- Each vehicle has a unique identification number, which can be set by the user.



Vehicle status view, tire pressure, temperature, etc.

- Display tire pressure and temperature on one screen;
- Real-time view of vehicle performance.



Visualize platform security operation

- Support automatic uploading, statistics, notification and reminder of alarm video, alarm information and log information;
- Support personalized custom module.



HD297RSG4W (10.1")

HD277RSG4W (7")

AI 4G Monitor with BSD / ADAS / DMS

- 7" / 10.1" IPS screen with quadview and 1024 * 600 resolution;
- IP66 waterproof for durability in rainy and snowy conditions;
- Built-in AI algorithm for intelligent pedestrian and vehicle detection in blind spots;
- Recording function Support 2 * 512GB micro SD cards + 2T SSD for automatic loop video recording;
- Secure card slot and user login for video recording security;
- All-in-one design with built-in GPS / Wi-Fi / 4G for remote real-time monitoring and management;
- Support 4CH 1080P AHD camera inputs;
- Easy-to-use touch screen operation.





ADA32C4

AI 4G Camera with BSD

- IP69K waterproof;
- 4G camera detects pedestrians and vehicles using AI echnology;
- Wi-Fi allows smartphone setup and playback;
- 4G Support remote video, alarm upload, and upgrades;
- It records 1080p HD video with a 128GB MicroSD card for 120 hours of loop recording.

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ADA44

AI 4G Dashcam with DMS & ADAS

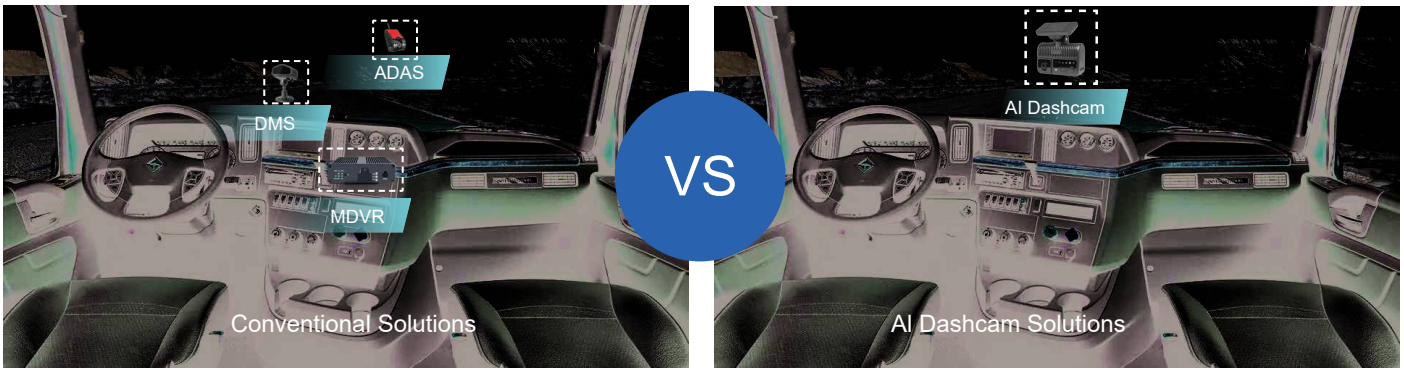
- All-in-one Design, 4G + GPS + DMS + ADAS;
- One-step sticking, easy installation;
- 2K Front View Camera;
- Support WDR, excellent day and night effect;
- Fleet Management, video cloud platform;
- iOS/Android Wi-Fi Direct;
- Support extra 2 cameras,IPC / AHD;
- Compliant with DDAW certification;
- 2 * 1T micro SD cards;
- ADAS automatic calibration.

Support Extra 2 Cameras (IPC / AHD)



All-in-one Design

With built-in 4G/Wi-Fi/GPS antenna, front view / DMS camera.





DV435

4CH AI Box with BSD / 360° / DMS / ADAS

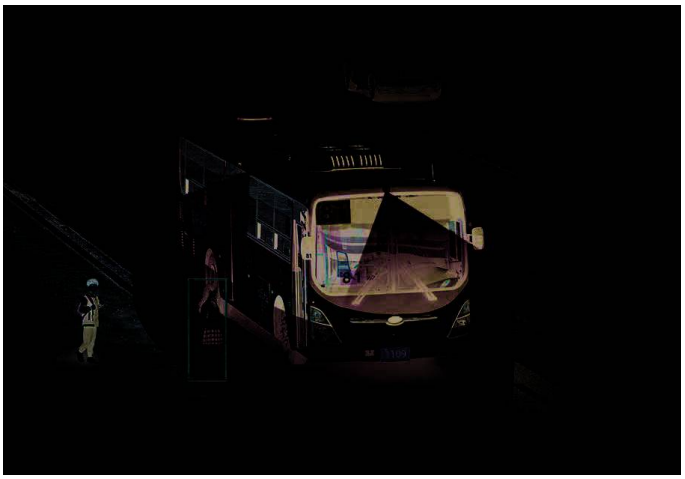
- Support 4CH 1080P camera inputs;
- Built in BSD, DMS, ADAS, 360° AVS algorithms;
- Real time recording and automatic storage; cloud connection;
- Remote access and GPS tracking via Wi-Fi / 4G function;
- It can be integrated with radar, infrared thermal camera and IPC;
- GPS tracking adopts adaptive sparse algorithm and support offline upload;
- With Wi-Fi station and AP mode;
- Support HD touch screen control and IR Remote Control;
- Support H.264 / H.265 encode.



ADA42

2CH AI Box with BSD / DMS / ADAS

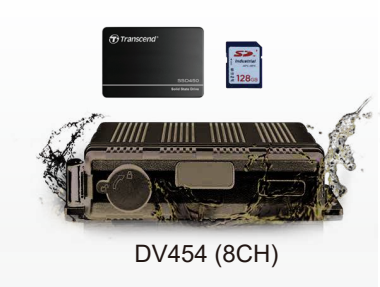
- Support 2CH 1080P camera inputs, compact size;
- Built in BSD, DMS, ADAS algorithms;
- Real time recording and automatic storage; cloud connection;
- Remote access and GPS tracking via Wi-Fi / 4G function;
- It can be integrated with radar, infrared thermal camera and IPC;
- GPS tracking adopts adaptive sparse algorithm and Support offline upload;
- With Wi-Fi station and AP mode;
- Support HD touch screen control and IR Remote Control;
- Support H.264 / H.265 encode.





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AI MDVRs



DV454 (8CH)



DV456 (4CH)



DV445 (4CH)



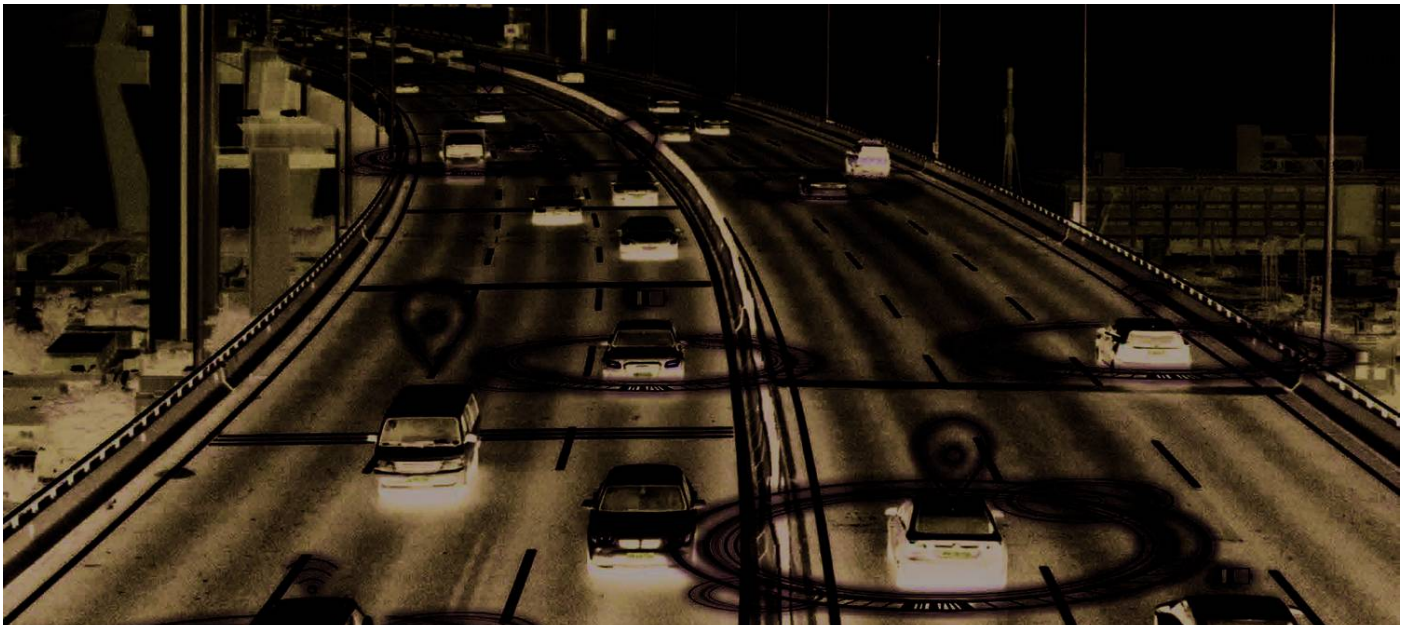
DV435 (4CH)



DV455 (4CH)

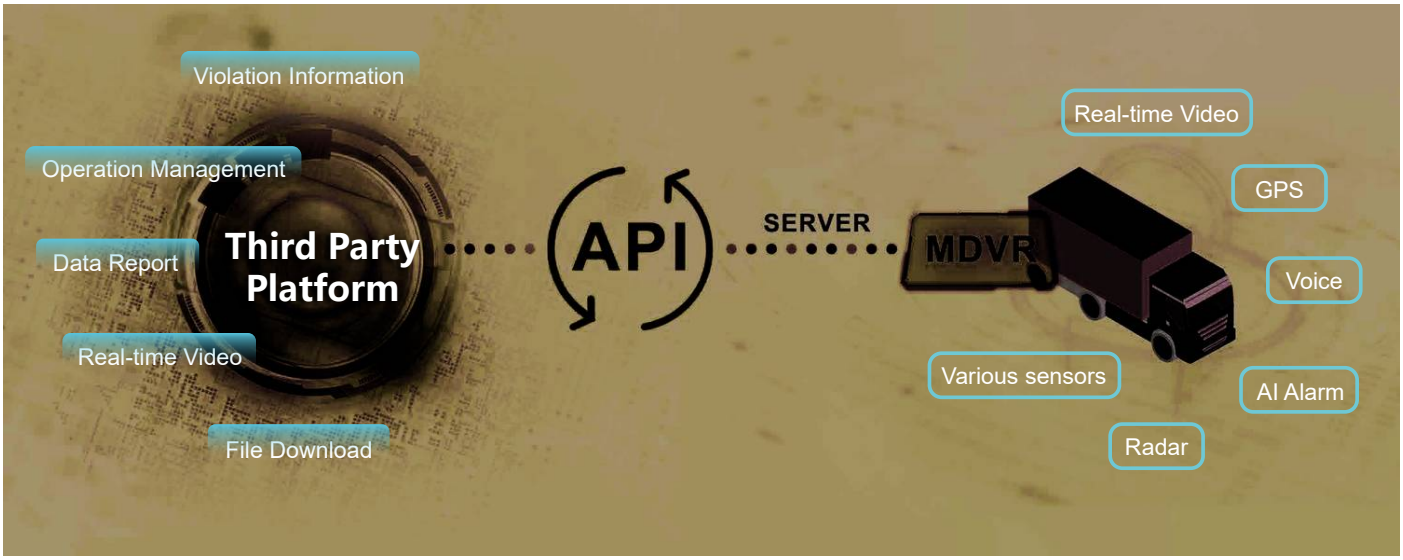
Specifications

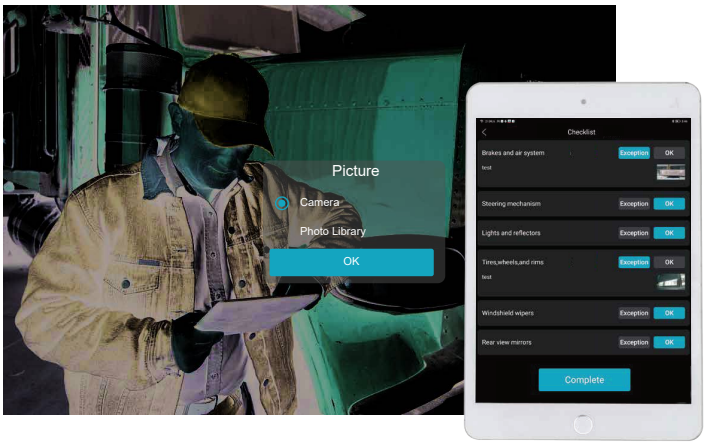
Model	DV454 (8CH)	DV456 (4CH)	DV455 (4CH)	DV445 (4CH)	DV435 (4CH)
System	linux				
Video input / output	8 * 1080P AHD (ext.4 * IPC) / 2 (VGA & CVBS)	4 * 1080P AHD (ext.4 * IPC) / 2 (VGA & CVBS)		4 * 1080P AHD (ext.1 * IPC) / 1080P AHD	
Audio input / output	8 or 12 / 3 (VGA & CVBS &walkie)	4 or 8 / 3 (VGA & CVBS &walkie)		4 / 2 (AHD & walkie)	
Video display	1080P, 720P, NTSC, PAL			1080P	
Video compression	H.264 / H.265				
Image resolution	1080P / 720P / D1 (PAL) / D1 (NTSC)			720P / D1 (PAL) / D1 (NTSC)	
Pre-recording	15s				
Ethernet	1 LAN		2 LAN	1 LAN	
GPS	yes				
3G / 4G	Optional				
Wi-Fi	2.4GHz				
USB / serial port	2 * USB + 1 * RS232 + 1 * RS485 + 2 * CAN		1 * USB + 1 * RS232 + 1 * RS485 + 2 * CAN	1 * USB + 1 * RS485 + 1 * CAN	
Alarm in / output	6 / 2		8 / 2	4 / 1	
Storage	Max. 1 * 2T SATA SSD + 1 * 512GB SD Card	Max. 1 * 2T SATA SSD + 1 * 512GB SD Card	Max. 4 * 512GB SD Card	Max. 2 * 512GB SD Card	
Power	10~32V				



Support API to Realize the Interface with Customer's System

MDVR could be linked to the server to provide API for customers to realize the interface with customer systems. Customers can either use our client or connect to their own system through the API. Thus, data exchange and information sharing could be achieved.





DVIR -Electronic Driver Vehicle Inspection Report

DVIRs are required and enforced by the Federal Motor Carrier Safety Regulations.
DVIR compliance helps to improve road safety. DVIRs can be completed electronically using a tablet or smartphone, rather than using the paper form.
Commercial vehicles drivers need to have pre-trip and post-trip inspections and report on the mechanical defects on any commercial vehicle they operate. This enforces vehicles inspection before and after every trip.

AI Wireless

Monitor

Zoom Camera

Laser Camera

Wi-Fi

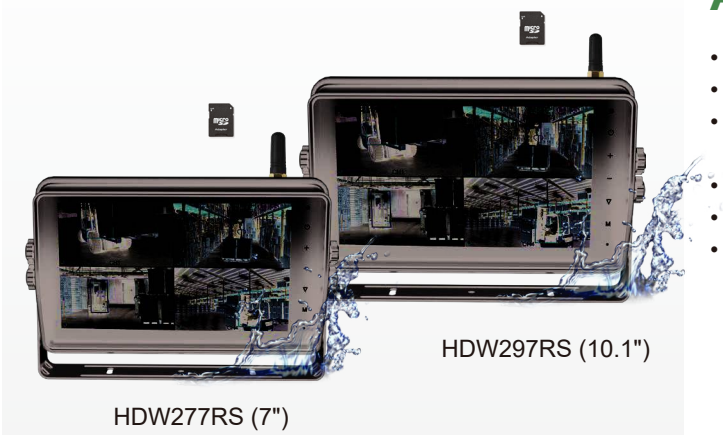




STONKAM's AI wireless - video system could greatly increase the visibility of blind spots, improving working efficiency in off-road environments.

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AI Wireless Monitor with BSD



HDW297RS (10.1")

HDW277RS (7")

- 7" / 10.1" IPS screen with quadview and 1024 * 600 resolution;
- IP66 waterproof for durability in rainy and snowy conditions;
- Built-in AI algorithm for intelligent pedestrian and vehicle detection in blind spots;
- Recording function Support 1 * 128GB micro SD cards;
- Secure card slot and user login for video recording security;
- Easy-to-use touch screen operation.

HD Wireless Monitors

IP66



HDW125Q (7")



HDW261Q (7")



HDW127Q (7")



HDW295Q (10.1")

HD Wireless Cameras, Transmitter & Receiver



HDW650 HDW871 HDW873 HDW835M HDW897 AC594 AC552 WR480 WT479

HD Wi-Fi Camera & Wi-Fi Transmitter

Built-in battery & magnetic base





WF897 WF873 WF871 WT473 FHD808 (Wired Camera)

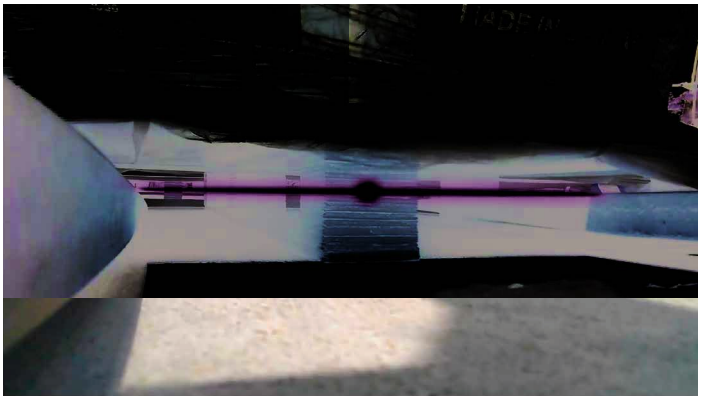


HDW814P

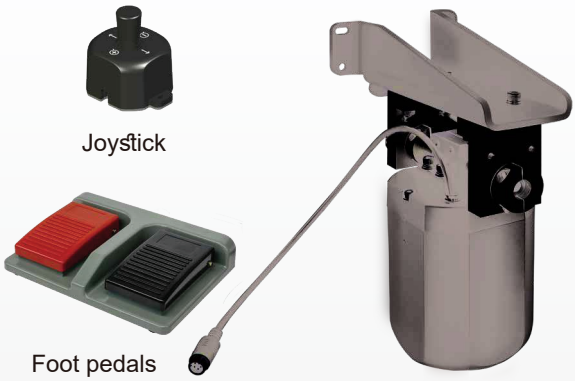
Class I laser safety certified

Laser Positioning Forklift Camera

- 1080P wireless forklift camera;
- Built in laser positioning line to help drivers accurately control the movement of forks;
- When turning, the laser beam can warn pedestrians at the turning point to prevent collisions;
- Signal stability, transmission distance range up to 120m;
- Magnet installation, no punching or wiring.







Joystick

Foot pedals

HDW845

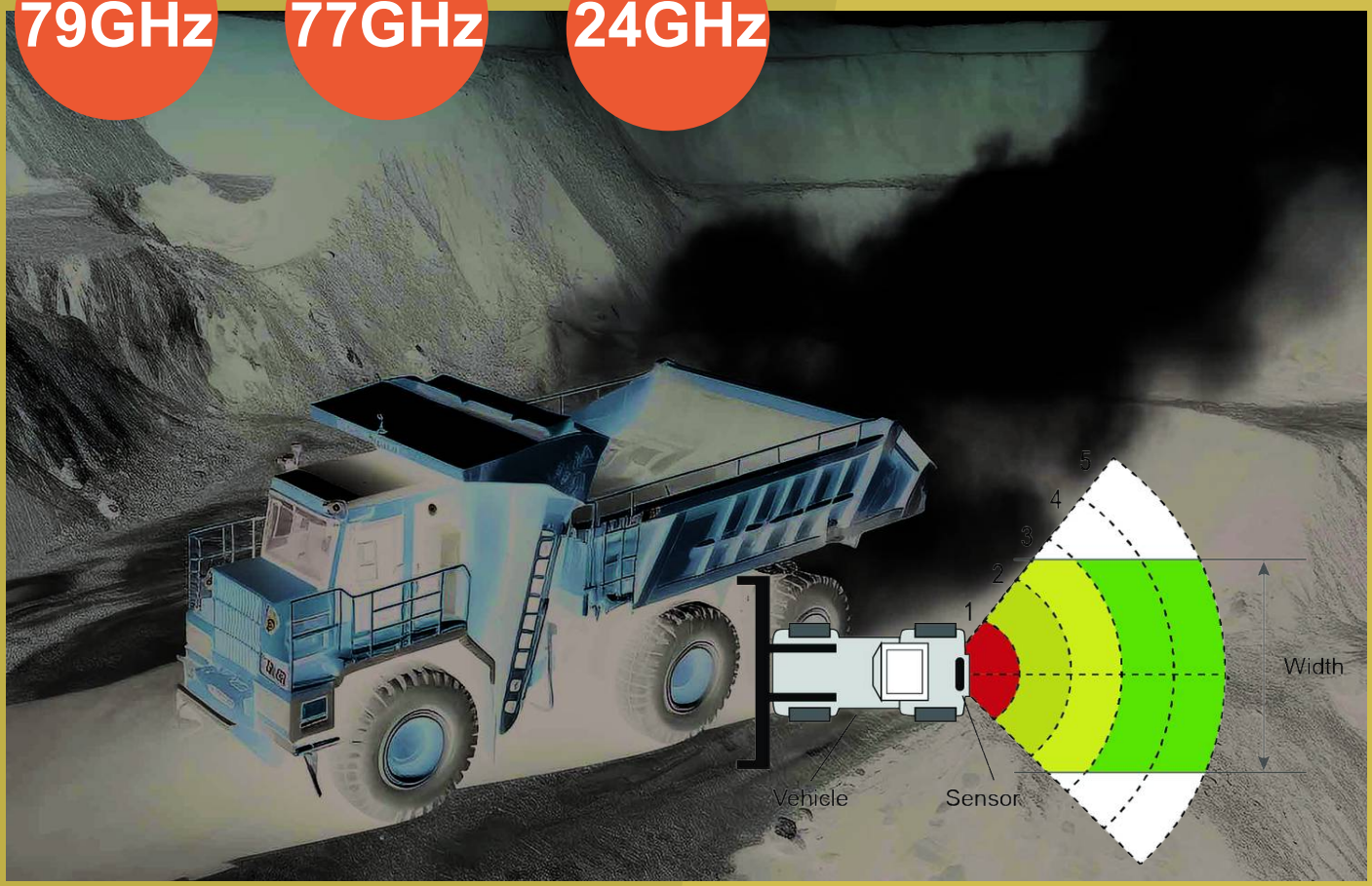
1080P 30x Zoom AI Wireless Camera

- 2.4GHz digital wireless;
- 30x optical * 5x digital zoom;
- Built in AI pedestrian detection algorithm;
- Real time detection of pedestrian around the lifting goods to avoid accident during operation;
- 300m long-distance transmission, 50m night vision;
- IP69K waterproof;
- Quick and easy pairing.



Radar Object Detection Systems

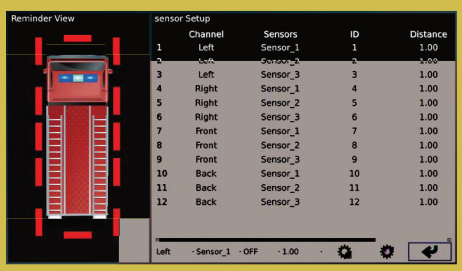
79GHz 77GHz 24GHz





Integrated with 360° Vision System

The system can be integrated with 360 around view system with better vision effect.

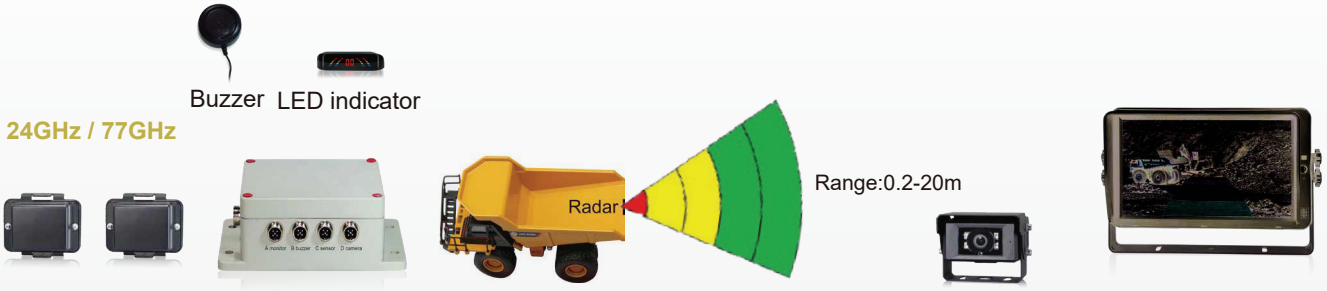




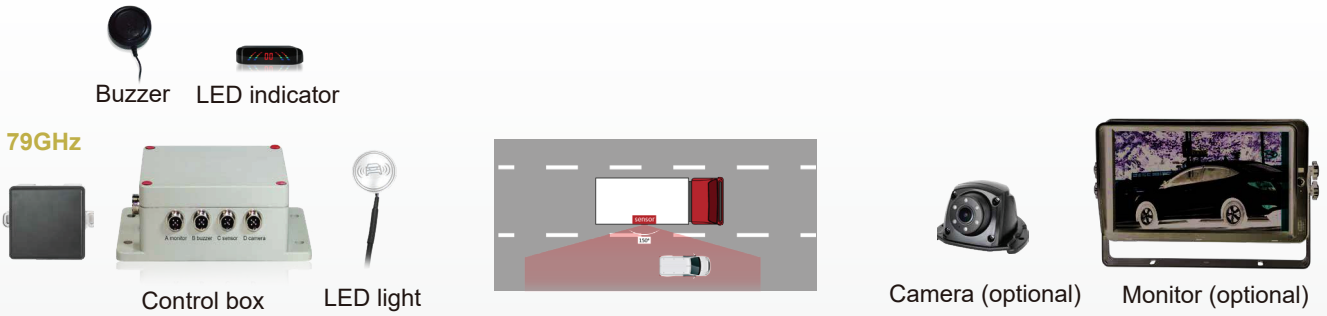


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1080P 79GHz / 77GHz / 24GHz Millimeter Wave Radar



PSA25 / PSA27



PSA22

Model	PSA27	PSA25	PSA22
Operation mode	FMCW		
Frequency	76 ~ 77GHz	24.05 ~ 24.25GHz	77 ~ 81GHz
Detection distance	40m	20m	±7m
Speed Range	±60km/h	±50km/h	±180km/h
Detection angle（horizontal/vertical）	120° / 14°	100° / 40°	150° / 30°
Trigger input	1	1	1
Alarm output	buzzer * 1	buzzer * 1	LED * 1
Sensor Power consumption	<2.5W (Sensor)	<0.5W (Sensor)	<5W (Sensor)
DC input	10 ~ 32VDC		
Operation temperature	-20ºC ~ +70ºC, RH90%		
Waterproof rating	IP69K		IP67
Dimension	106.6 * 72.9 * 34.5mm		69.5 * 65 * 20mm
Alarming mode	buzzer, image overlay		buzzer, LED， image overlay
Anti-vibration level	5.9G		

Parking Sensors





Blind Spot Detection



Model	PSA28	PSA03	PSA01	BSA09
Radar type	Ultrasonic Radar			
Number of sensors	4	4	4	6 / 12
Frequency	40±1.5kHz	40±1.5kHz	40±1.5kHz	40±1.5kHz
Detection angle	60°	60°	110°	60°
Detection distance	5m	5m	2.5m	5m
Best detection distance	3m	3m	2m	3m
No. of detection zones	4 zones	4 zones	5 zones	4 zones
Display unit	M/FT			
Sound alarming	Available			
Alarming device	Buzzer			
DC input	10-32VDC			
Operation temperature	-20°C ~ +70°C, RH90%		-20°C ~ +60°C, RH90%	-20°C ~ +70°C, RH90%
Anti-vibration level	5.9G			