

WDAS-9

Dual-Cam Premium ADAS with DVR function

FCW | PCW | LDW | SLR | FVSA | FPW | DVR



WISTRON at a Glance

Who We Are



Located in Taiwan, WISTRON develops cutting edge technologies to provide competitive road safety solutions

What We Do



We provide an Advanced Collision Avoidance and DVR System that helps reduce accidents and improve driving behavior

How We Are Different



Our on-board deep learning base algorithm, and embedded DVR that records the road sets us apart from similar solutions

ADAS Parts Description

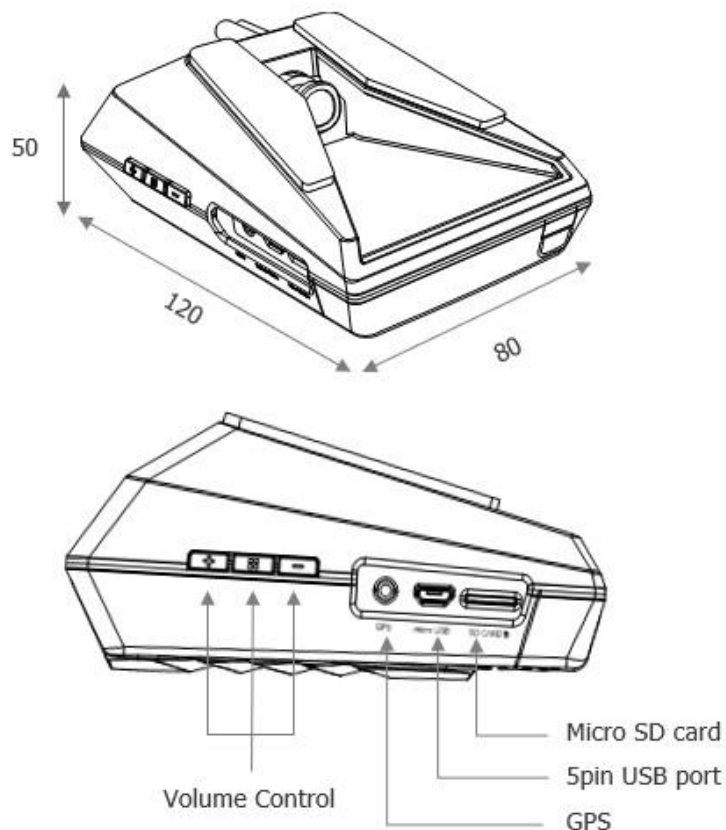


Indicator display





Volume and mode control

Product Specifications



CPU	Cortex A7 Quad-Core
Audio Out	Speaker
Camera	Front 1280 x 720 (HD) Rear 1280 x 720 (HD)
Power	DC 10V ~ 36V
Format	Video AVI (h.264 codec) Audio PCM
Storage	8~128GB Micro SD card support
Input / Output	Main unit Micro 5pin USB port, Micro SD card, GPS PCI Box Video out, CAN, Power, Fuse, Vibrator, Indicator, FMS
Temperature	Operation -20 °C ~ 70°C (-4°F ~ 158°F) Storage -40 °C ~ 85°C (-40°F ~ 185°F)

What's in the Box

Main Unit	Indicator	SD Card (16G)
		
PCI Box (Peripheral Component Interface)	Contactless CAN Reader	Cables (Power / Analog / CAN)
		

Optional Accessories

GPS



Vibration Unit



Backward / Rear camera



FMS Cable



FMS Converter



Features



SLR (SPEED LIMIT RECOGNITION)

Recognizes speed limit signs and provides warnings for over speed.



PCW (PEDESTRIAN COLLISION WARNING)

Notifies driver of any pedestrians, bicycles or motorcycles ahead.



FCW (FORWARD COLLISION WARNING)

Sends warning alerts if a crash is imminent to assist driver in maintaining a safe traveling distance.



LDW (LANE DEPARTURE WARNING)

Helps to regain direction if the driver unintentionally departs lanes.



FVSA (FRONT VEHICLE START ALARM)

Notifies driver if the front vehicle started moving forward from 0 speed without the vehicle moving within 2 secs.



FPW (FORWARD PROXIMITY WARNING)

Notifies driver if the vehicle moves forward while another vehicle is in the detection range.



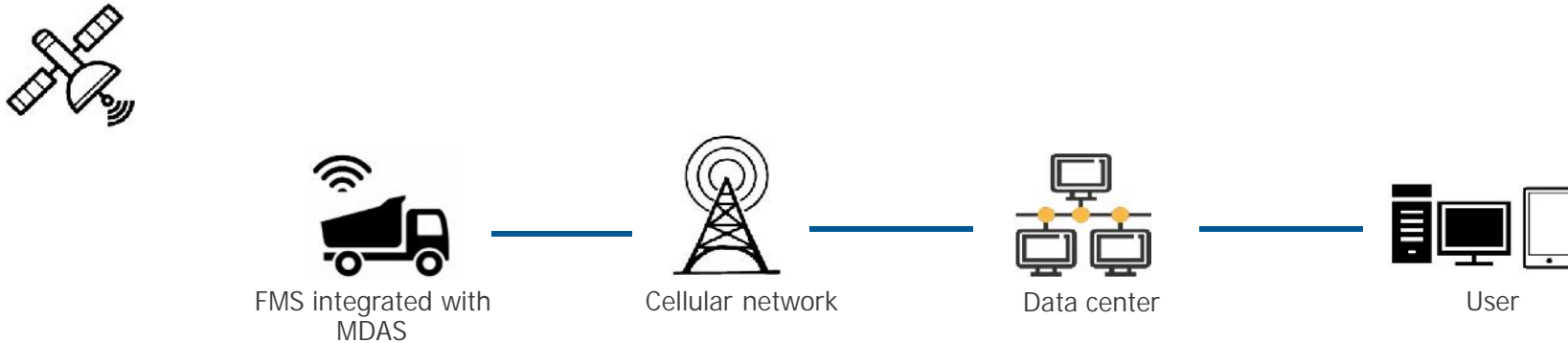
DVR (DIGITAL VIDEO RECORDER)

Records scenes as HD+HD resolutions into SD card before and after an accident. (Every minute in a loop.)

Indicator status

	SLR	PCW	FCW	LDW
DETECTION				
WARNINGS				
ERRORS	<p>CAMERA</p> <p>E1</p>	<p>CAN BUS</p> <p>E2</p>	<p>OTHERS</p>	<p>E1: VIEW BLOCK E2: INDICATOR E3: SD CARD</p>

FMS Integration



Easy fleet management

MDAS makes your fleet management easy by

1. RS-232 and CAN Bus
2. Real time monitoring

Cost-effective solution

MDAS helps you save resources by

1. Easy installation & calibration
2. Improving Drivers' driving habits
3. Reducing management expenses

WDAS-9: DVR Features

Dashcam Features

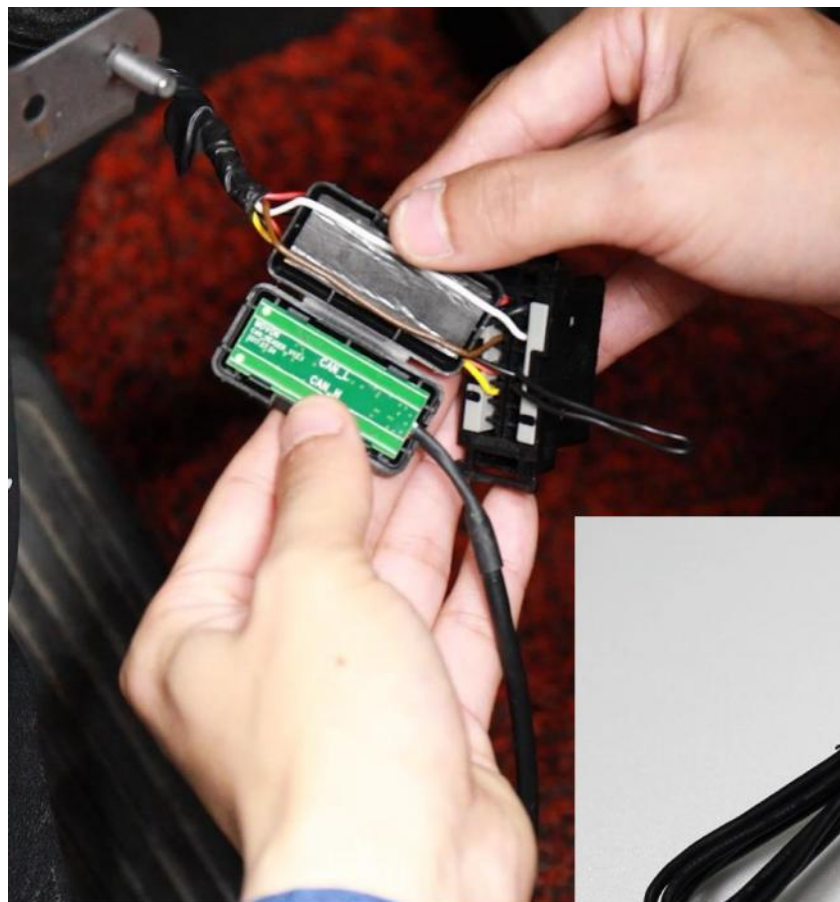
- **Continues Mode:** Front (HD) + Rear (HD) continuous recording
- **Event Mode:** Only events are recorded
- **User Mode:** Users are able to initiate recording
- WDAS-9 viewer allows recordings to be seen with ADAS information detected



WDAS-9: Easy Installation & Calibration

Contactless CAN Reader

- Read vehicle CAN information without a direct connection
- No wire cutting, peeling, or soldering required to install CAN Reader, ensuring a quick install and no damage to the vehicle



WDAS-9: Easy Installation & Calibration

CAN Database

- View vehicle installation and calibration information in the WISTRON database

Vehicle Profile (CAN-BUS) Database

Language:

<div style="text-align: left; padding-left: 5px;"> ▼ Search </div> <div style="margin-top: 5px;"> <input style="width: 100%; border: none; border-bottom: 1px solid #ccc; padding: 2px 5px;" type="text" value="Ford"/> </div> <div style="margin-top: 5px;"> <input style="width: 100%; border: none; border-bottom: 1px solid #ccc; padding: 2px 5px;" type="text" value="Model"/> </div> <div style="margin-top: 5px;"> <input style="width: 100%; border: none; border-bottom: 1px solid #ccc; padding: 2px 5px;" type="text" value="Year"/> </div> <div style="margin-top: 10px; text-align: center;"> <input type="button" value="Input Vehicle Information"/> </div> <div style="margin-top: 10px; text-align: center;"> <input type="button" value="My Vehicle Information List"/> </div> <div style="margin-top: 10px; text-align: center;"> <input type="button" value="Multi CAN data download"/> </div>		32	Ford	S-Max	2013	Gasoline	GG
		33	Ford	S-Max	2014	Gasoline	GG
		34	Ford	Fusion	2011	Gasoline	GG
		35	Ford	F150	2013	Gasoline	GG
		36	Ford	F150	2008	Gasoline	GG
		37	Ford	F150	2009	Gasoline	GG
		38	Ford	F150	2010	Gasoline	GG
		39	Ford	Explorer(installed in Korea)	2014	Gasoline	GG
		40	Ford	explorer	2011	Gasoline	GG
		41	Ford	explorer	2012	Gasoline	GG

Realtime Vehicle ADAS Camera Monitoring for Driving Safety



Realtime Risk Warning



Realtime Monitoring



Realtime Manual Intervention



Automatic Evidence Capture



WDAS-9: Case Study

01. Korean Market No. 1

- Korean Government is mandating to install ADAS system to 9 meter long buses & over 20ton trucks
- WISTRON will install more than 25,000 pcs in Korea in Y2018.
- WDAS-9 has No. 1 market share in Korean market with it's outstanding quality and easy installation.

9Meter Long Buses



Over 20ton trucks



Seoul Taxis



LIPU BUS in Mexico

WDAS-9: Case Study 03. LIPU Bus Project in Mexico

- LIPU bus is No.1 BUS operator in MEXICO. Operating more than 20K vehicle across the Mexico.
- LIPU bus decided to work with WISTRON WDAS-9 after testing with it's excellencies on ADAS function and Video recording feature.



WDAS-9: Case Study

04. OEM Project

- WISTRON is working with global vehicle manufacturers as an ADAS system supplier
- Our products meets technical standard of the OEM vehicle manufacturers.
- OEM Customers
:Clarion, TATA Daewoo, Navistar, Volkswagen, GEELY Motors, Kinglong BUS etc...

clarion

elpis

安全運転支援機能付き
ドライブレコーダ



TATA Daewoo, ADAS system



ZD Auto, D3, ADAS system



NAVISTAR®



The model is to verify that it meets international standards and has stopped testing in the ADAS special testing institutions in various countries, and obtained and passed the following test certification.

June 2018: NAST National Automotive Quality Monitoring and Testing Center (Yangyang), Puyang, Hubei, China, stopped the FCW and LDW tests with **JT/T883-LDW & GB/T 33577** ADAS specifications.

March 2018: South Korea's Korea Automobile Testing & Research Institute, stopping FCW, PCW and LDW testing with **ISO 17361 & 15623** ADAS specifications.

July 2017: China Automotive Technology Research Center stops FCW, PCW, LDW test with **GB/T 26773** base and stops FCW test with NCAP and C-NCAP.

May 2017: Korea's Korea Automotive Technology Institute stops FCW, PCW, LDW testing with NCAP (Certificate no. **KTS171587-2**).

May 2017: European TASS international safety center Stops FCW, PCW, LDW test with **EU ECE R130** LDW specification.

February 2017: Israeli Ariel Vehicle Lab stops FCW, PCW and LDW testing with the MDT Directive No. **142** specification.

TESTS & CERTIFICATIONS



Korea Government Official Test

- Lane Departure Warning
- Forward Collision Warning
- Tested by Korea Automobile Testing & Research Institute.



ECE-130 LDW Test

- Lane Departure Warning
- Tested by TASS International, Netherlands.



EURO NCAP PCW Test

- Pedestrian Collision Warning
- Test By Korea Automotive Technology Institute, Korea



Israel Government Official Test

- Lane Departure Warning
- Forward Collision Warning
- Tested by Ariel Vehicle Lab

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