

# MDAS-9

Premium ADAS with DVR function

PCW | FCW | LDW | FVSA | FPW | DVR



# SYRUS 3G

One device, multiple applications, infinite possibilities



# MOVON at a Glance

## Who We Are



Located in Seoul, Korea, MOVON 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

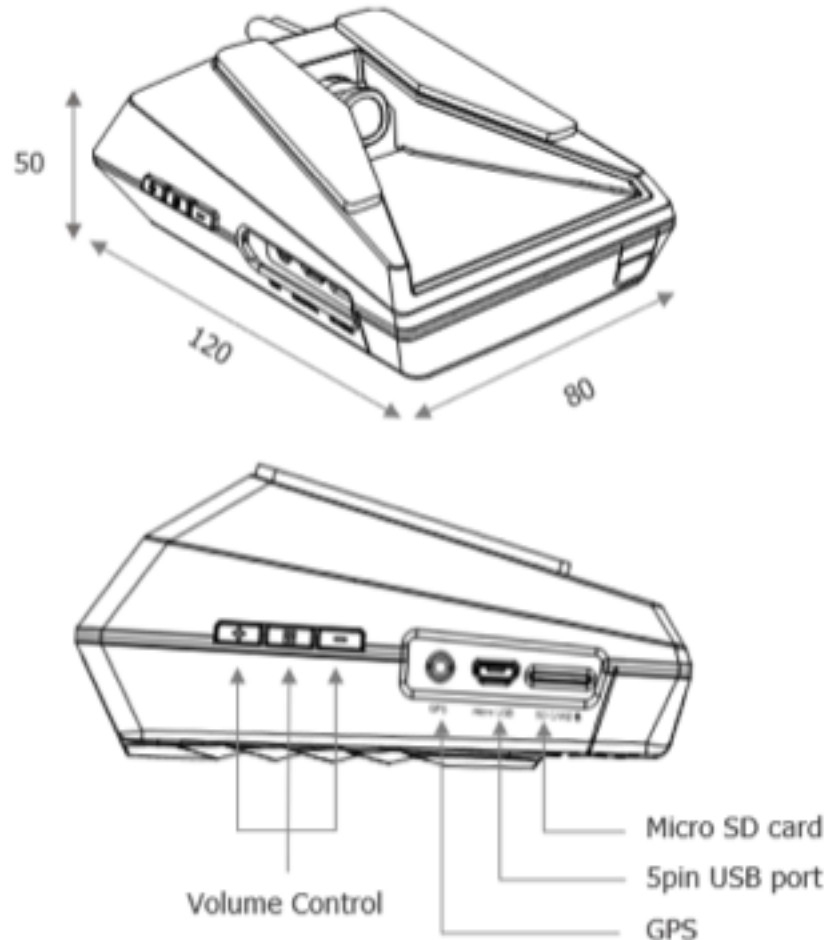


Indicator display



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)



# Features



## 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

Records scenes as HD resolutions. Continuous/ Event & User Triggering Record Mode

# Indicator Status



Turn signals



Lane Detection



Lane Detection Unavailable



Lane Departure Warning



Front Vehicle Detection



Front Collision Warning



Pedestrian Detection



Pedestrian Collision Warning



Camera Connection Error



CAN Communication Error









Camera View Block Error








Low Visibility Error

# 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	Rear camera
		
FMS Cable	FMS Converter	
		

# Compatible Syrus device lists

MOVON MDAS-9 is compatible with Syrus devices.

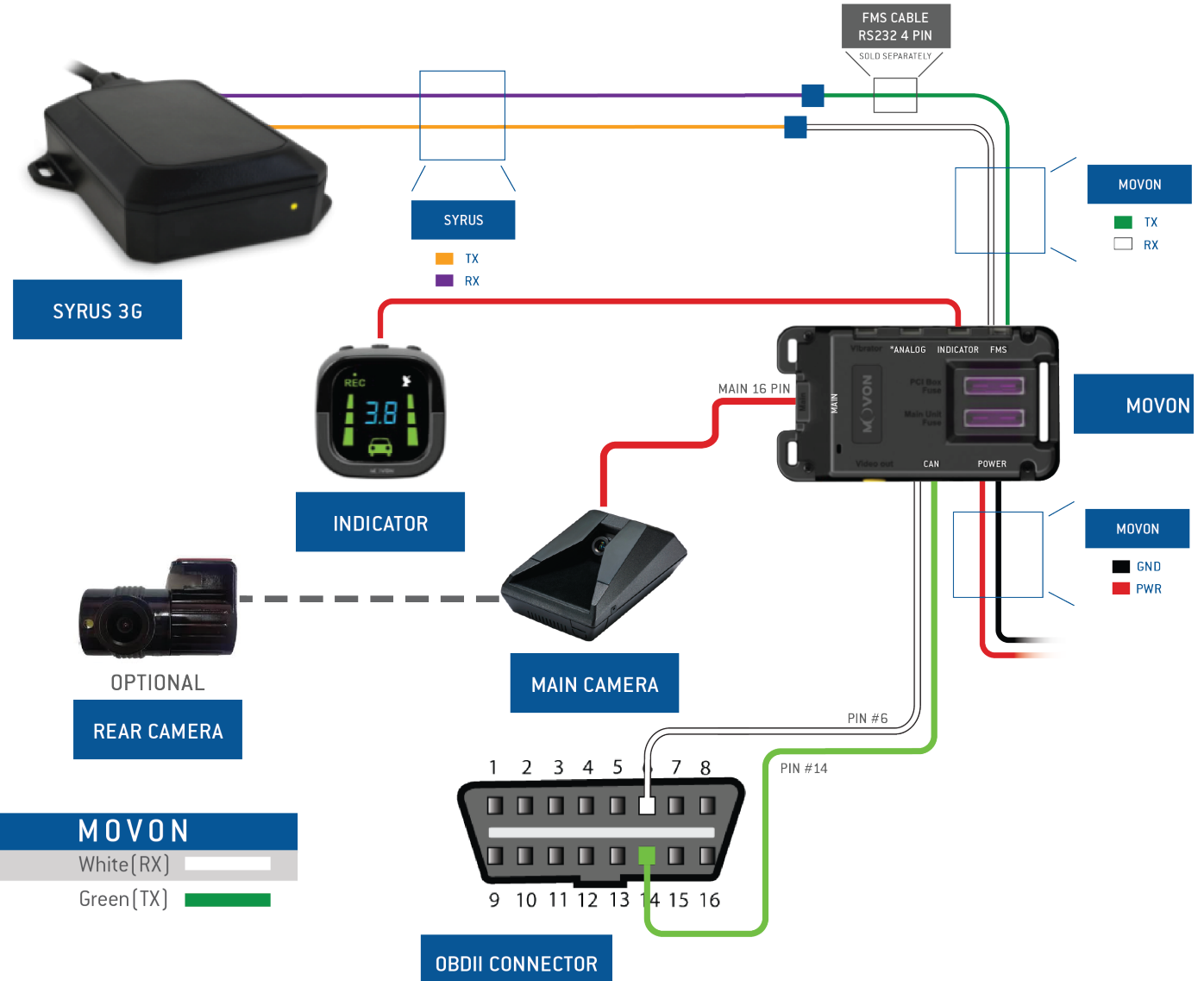
- Syrus 3G
  - Item # S3G-2480
- Syrus 3G Bluetooth
  - Item # S3GBT-2481
- Syrus Cloud Connect 2G
  - Item # SL-1645
- Syrus Cloud Connect 3G
  - Item # SL3G-1645



# Physical RS-232 Connection Between Syrus & MDAS-9

Add Syrus Actionable Telematics to Movon integrations and combine all Movon signals to Syrus Intelligent Event Reporting Engine.

Use Pegasus Gateway managed configurations for easy setup and deployments.



## RS-232 Connection

SYRUS	DESCRIPTION	DESCRIPTION	MOVON
Orange [TX]	Transmit Data	Receive Data	White [RX]
Purple [RX]	Receive Data	Transmit Data	Green [TX]

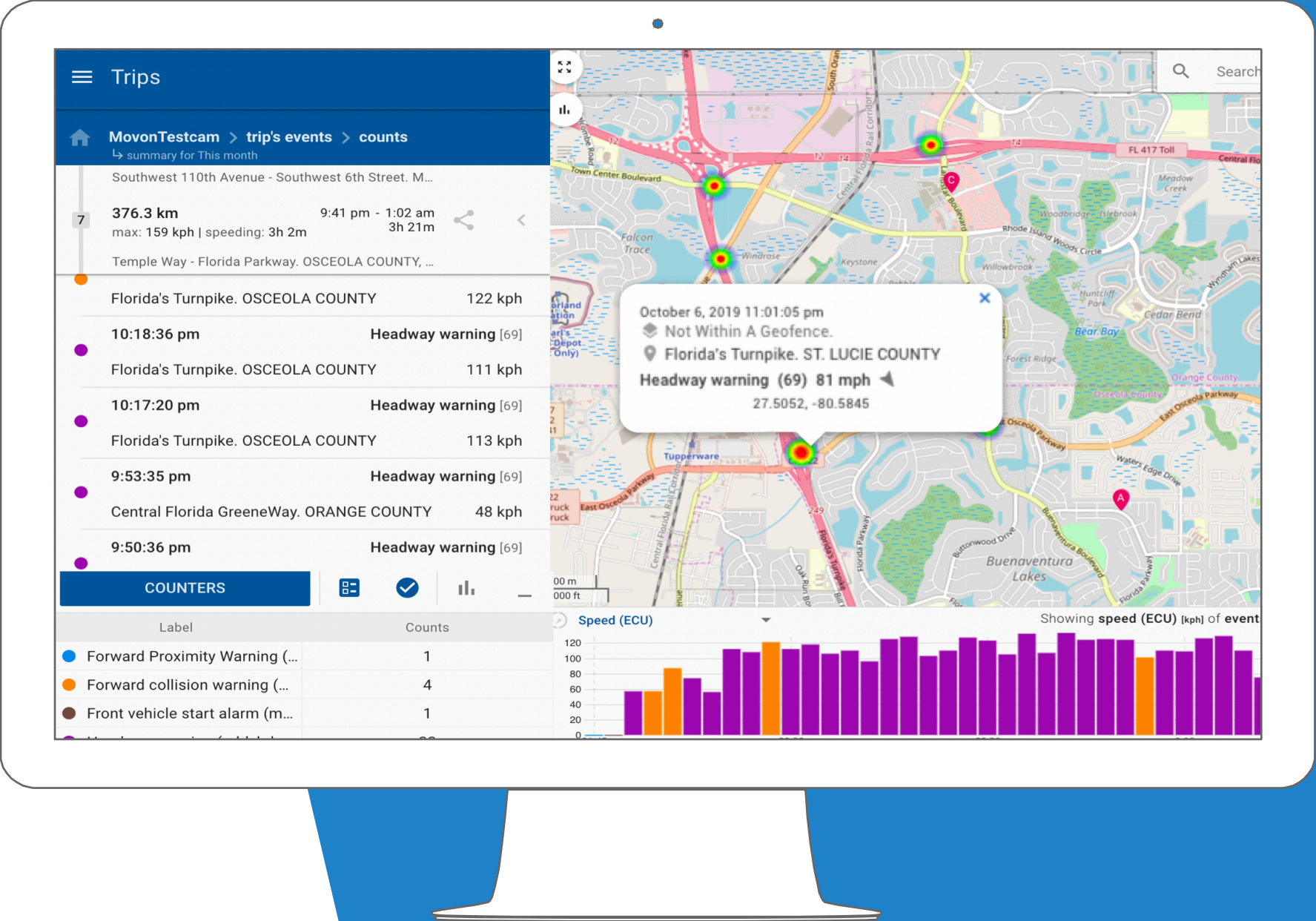


# ADAS in DCT

Pegasus Gateway Ecosystem

View all ADAS event information collected by Syrus 3G Telematic Gateways.

View a heatmap of the locations of the vehicle alerts.

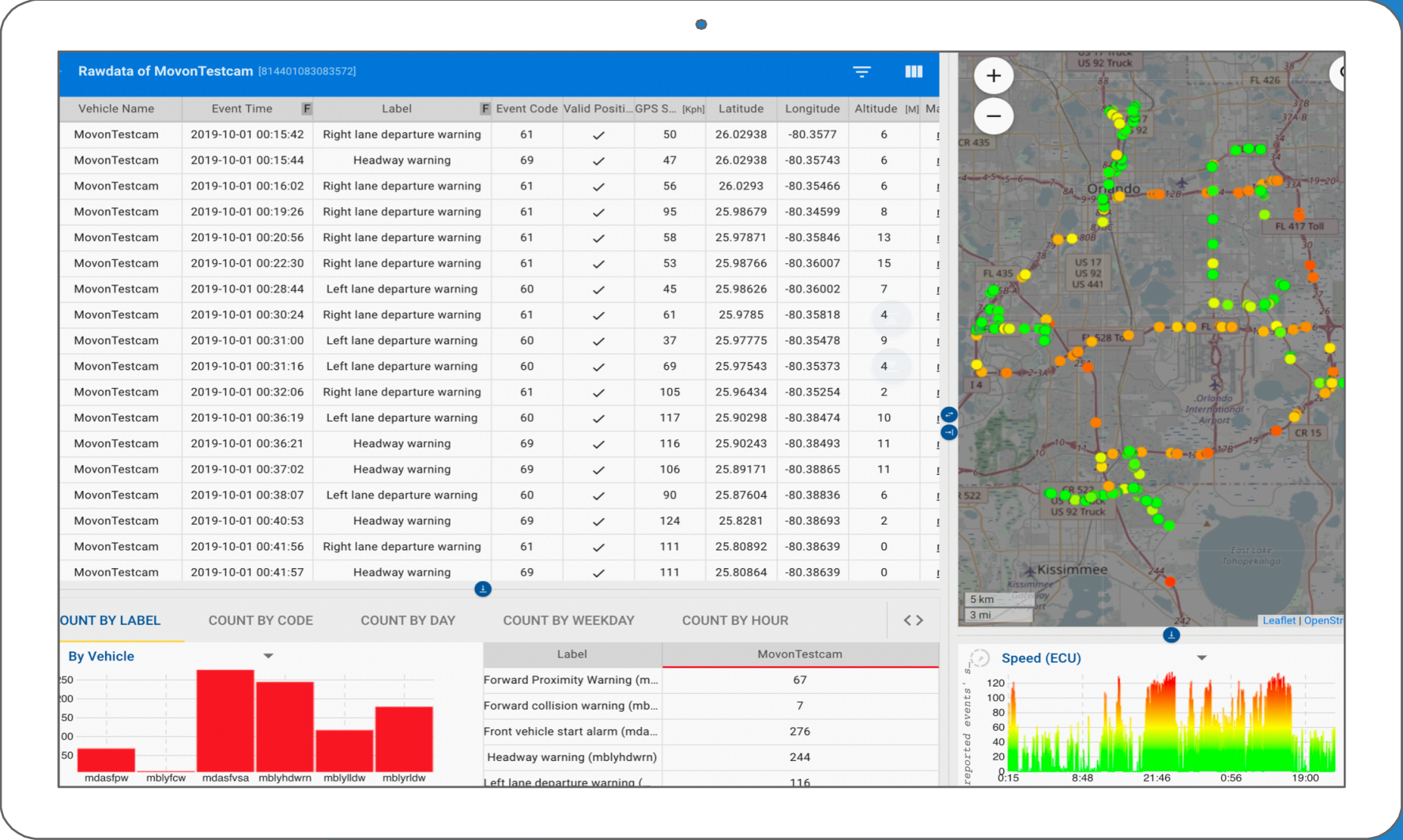


# ADAS in DCT

Pegasus Gateway Ecosystem

View date and time stamps for each ADAS event in the Pegasus Gateway Platform.

Filter out the alerts that occurred at higher speeds.





# ADAS in DCT

Pegasus Gateway Ecosystem

View driver behavior analysis with events from MDAS-9.

ADAS Report Module in Pegasus Gateway.

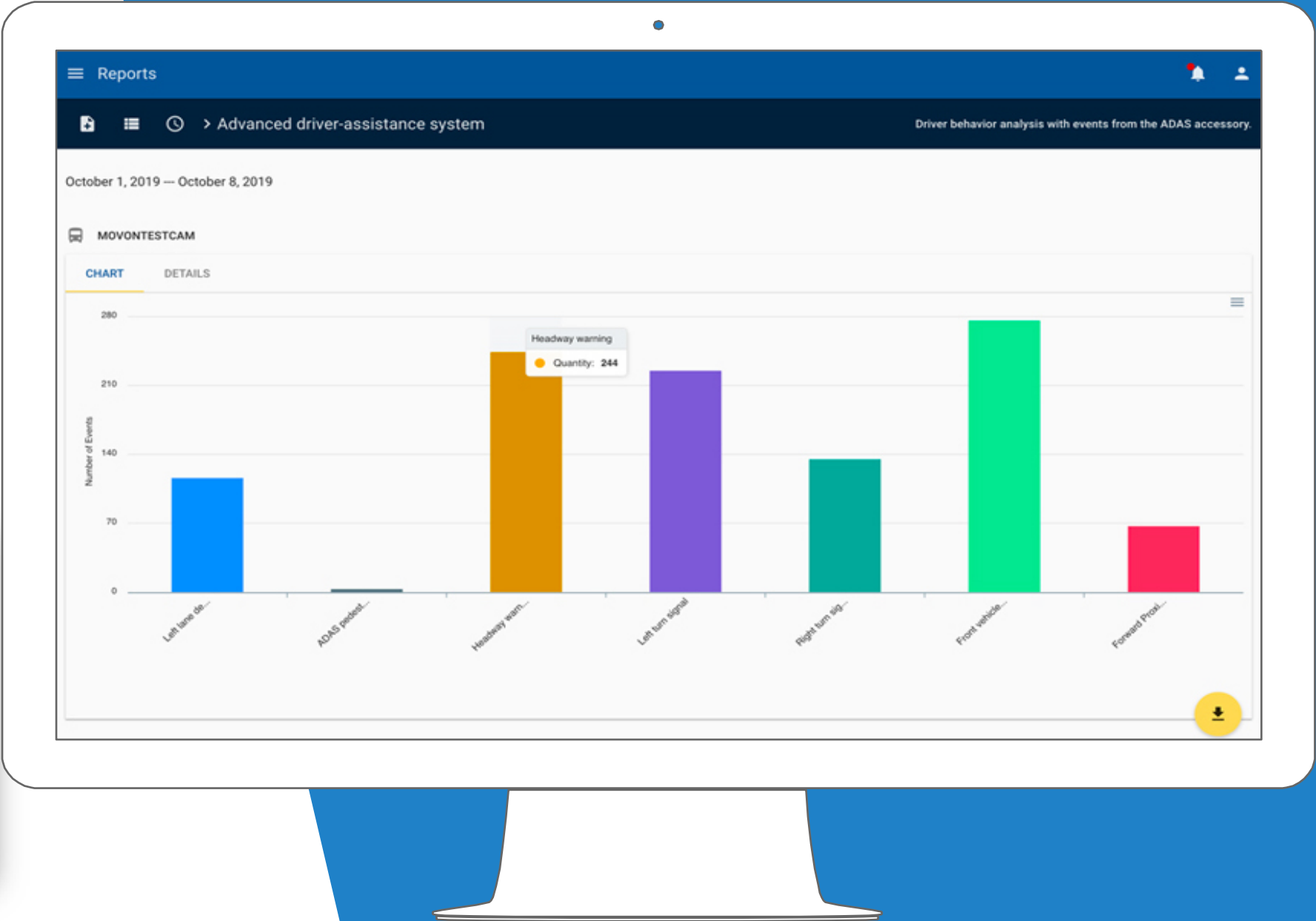
Download Detailed Report

MOVONTESTCAM

CHART

DETAILS

Date	Time	Event	Speed	Heading	Latitude	Longitude	Location
Oct 01, 2019	12:15:22 AM	Left turn signal	9 kph	S (178°)	26.02979	-80.35927	<a href="#">Sheridan Street, BROWARD COUNTY, FL 33331-33332 US</a>
Oct 01, 2019	12:15:44 AM	Headway warning	29 kph	E (93°)	26.02938	-80.35743	<a href="#">Sheridan Street, BROWARD COUNTY, FL 33331 US</a>
Oct 01, 2019	12:21:15 AM	Left turn signal	19 kph	N (358°)	25.97924	-80.35968	<a href="#">Southwest 160th Avenue - Miramar Parkway, BROWARD COUNTY, FL 33027-4145 US</a>
Oct 01, 2019	12:28:44 AM	Left lane departure warning	28 kph	S (177°)	25.98626	-80.36002	<a href="#">Southwest 160th Avenue, BROWARD COUNTY, FL 33027-4145 US</a>
Oct 01, 2019	12:31:00 AM	Left lane departure warning	23 kph	S (181°)	25.97775	-80.35478	<a href="#">Miramar Parkway, BROWARD COUNTY, FL 33027 US</a>

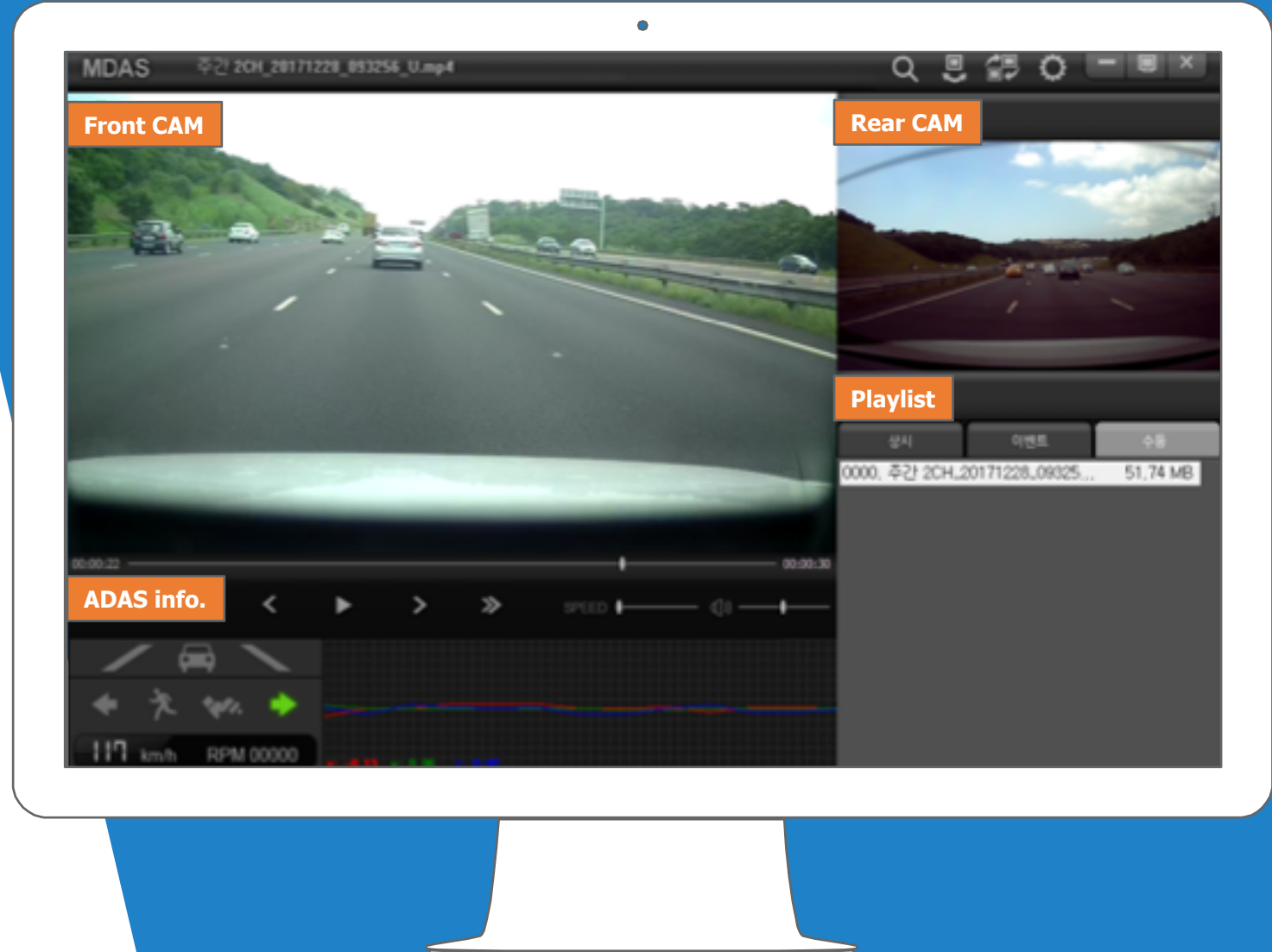




# MDAS-9: DVR Features

## Dashcam Features

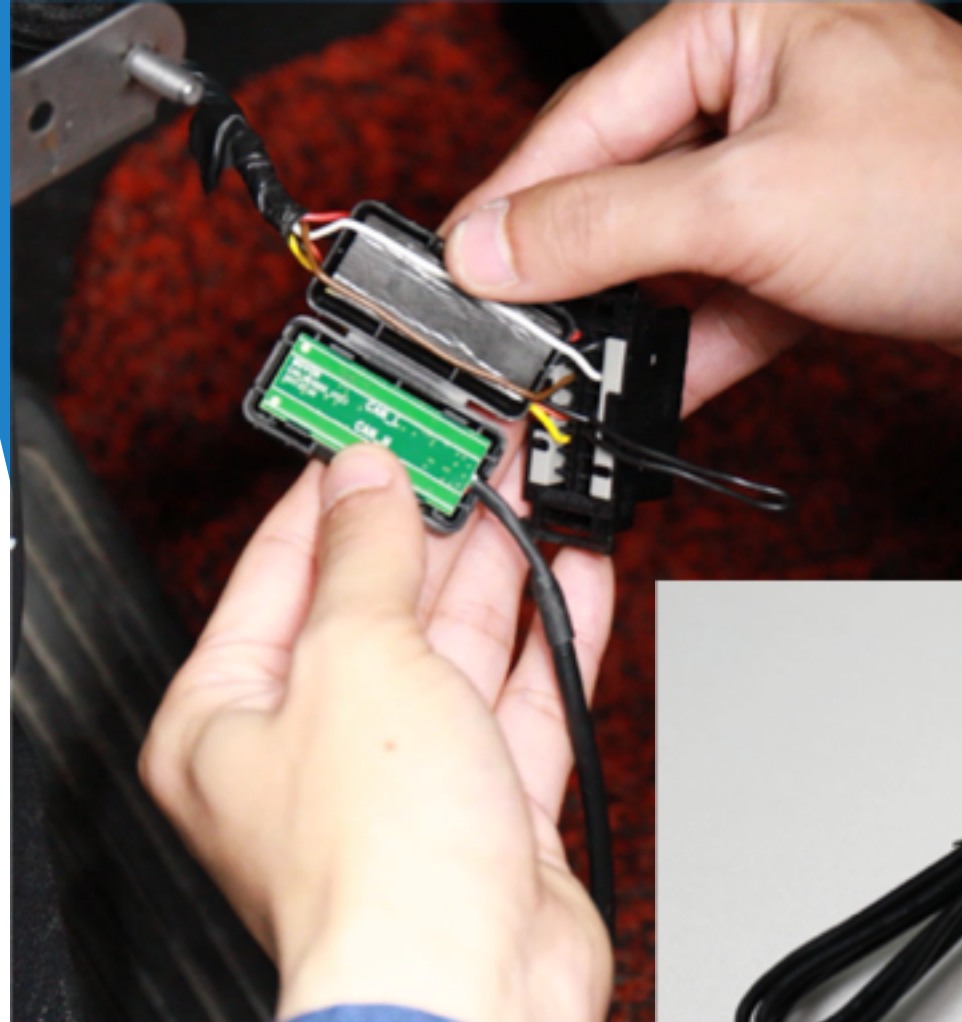
- Front (HD) + Rear (HD) continuous recording
- **Event Mode:** Only events are recorded
- **User Mode:** Users are able to initiate recording
- MDAS-9 viewer allows recordings to be seen with ADAS information detected



# MDAS-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



# MDAS-9: Easy Installation & Calibration

## CAN Database

- View vehicle installation and calibration information in the MOVON database
- <http://info.mdas.co.kr>



## Contact Information



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