

# TOPDON

## TOPDON PHOENIX ADAS MOBILE



Easy Fast Fold™ makes putting the tool away a breeze.  
High precision Five-Laser Device to assist positioning.  
Easy Center-Positioning to micro-adjust with precision.  
Covering a wide Range of Car Makes, and with various targets.  
Easy UI, providing Detailed Steps and illustrations.

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**TOPDON SUPPORT**  
SCHEDULE A DEMO [sales@topdon.us](mailto:sales@topdon.us)

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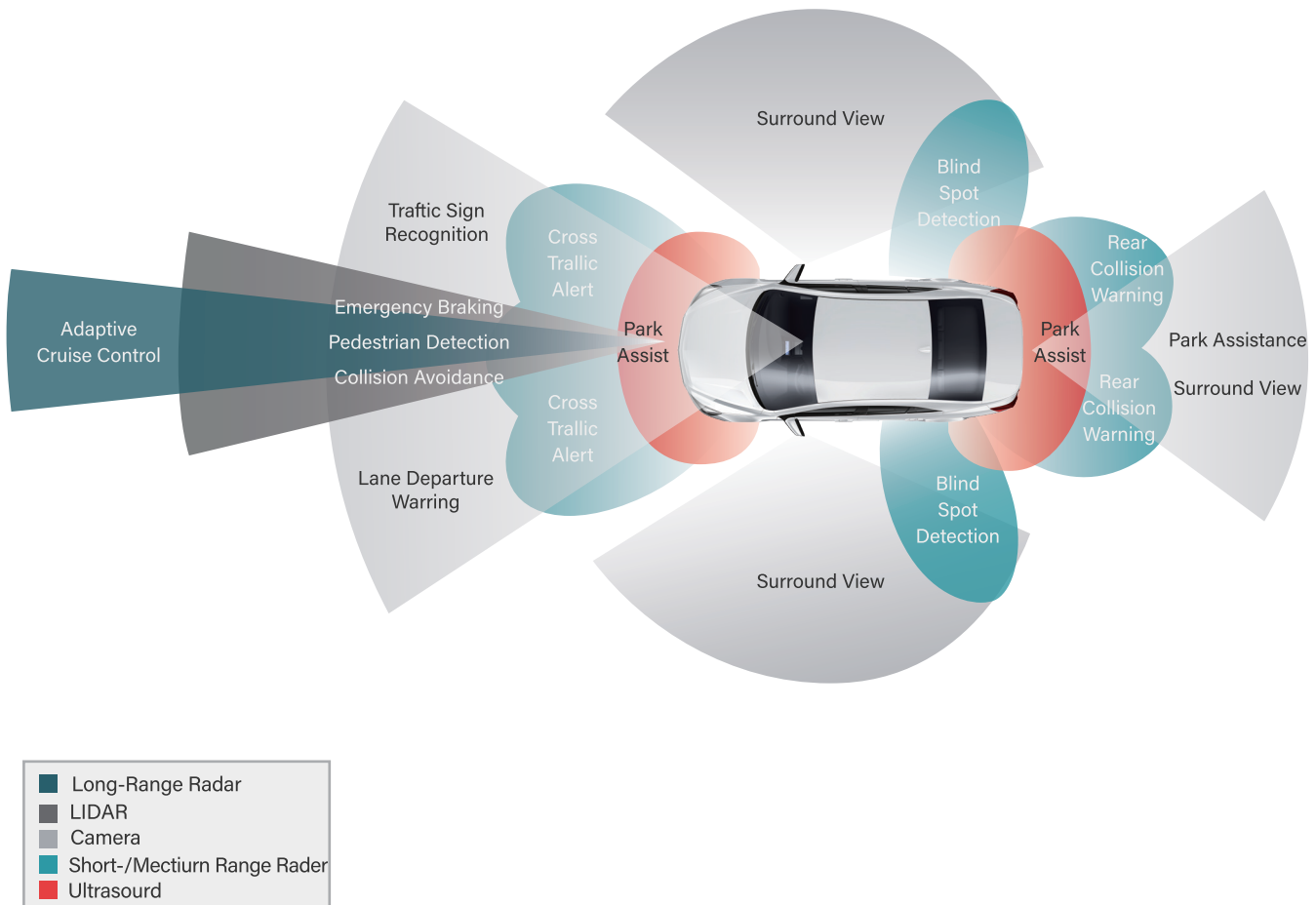
# 1.WHAT IS ADAS?

The Advanced Driver Assistance System (ADAS) uses image processing cameras, radar, light detection and ranging, and other sensors to monitor vehicle surroundings and detect potentially dangerous situations. Purpose: to increase safety through advanced situational awareness and reduce collision possibilities.

Sensors used in ADAS include Cameras, Radar, LiDAR, Night Vision, and Ultrasonic sensors. These sensors work with other vehicle systems to monitor the state, motion, and stability. Usually, these sensors are located in the front and rear bumpers, side mirrors, grill, and windshield glass.

## What are the applications of ADAS?

ADAS usually includes Traffic Message Channel (TMC), Intelligent Speed Adaptation (ISA), Vehicular Communication Systems, and other driver assistant systems. The specific systems are as follow picture :



# Types of Systems

## Passive Assist Systems

A passive system of ADAS monitors conditions around the vehicle. Warning the driver through lights, message centers, audible beeps and or vibrations of components like seats, steering wheels, brake pedals or seat belts.

It may also use live camera displays or live graphics to assist the driver

**LDW – Lane Departure Warning**

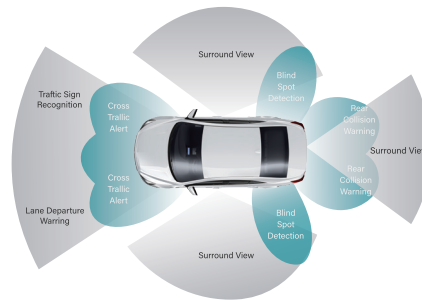
**RCW – Rear Collision Warning**

**AVM – Around View Monitoring**

**BSD – Blind Spot Detection**

**FCW – Front Collision Warning**

**NVS – Night Vision System**



## Active Assist Systems

An active system of ADAS will actually slow, stop or turn the vehicle from an object or situation (like lane departure) using the electronic power steering module, electronic braking and ABS modules, and throttle controls in the PCM.

It can also use sensors to park a vehicle in a space or adjust headlights to steering inputs

**AEB – Automatic Emergency Braking**

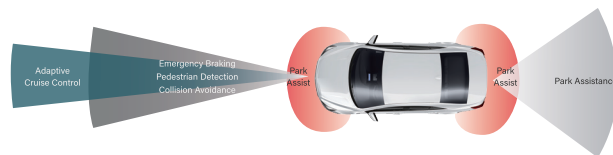
**ACC – Adaptive Cruise Control**

**LKA – Lane Keep Assist**

**AFL – Adaptive Front Lighting**

**AP – Assisted or Automatic Parking**

**FCA – Front Collision Avoidance**



## 2.WHEN WOULD THE ADAS SYSTEMS NEED RE-CALIBRATED?

After a collision

Hood or Trunk replaced

Front or Rear bumper removal

Windshield replacement

Mirror replacement

Suspension work or replacement including alignment

“Curbing” or bumping moving sensor module

Module or component Replacement

## 3.ABOUT TOPDON ADAS MOBILE

Phoenix ADAS Mobile PX1000 is a portable ADAS calibration tool released by TOPDON. It's the preferred tool for professional collision shops, component / part specialists, window / trunk / hood replacement specialists, alignment / suspension, and many others for the modern car.

It features a Five-Laser Device (to assist in center positioning), Modular Target Design offering flexible setup, Fast Fold™ for quick and easy storage, Wide Car Make Coverage and compatibility with various target panel sizes, and Center-positioning allows micro-adjustments for unparalleled accuracy.



### Component

#### Calibration Flame



Unfolding



After folding



# Accessories



Five Line Laser  
LAM09-01



Cross Laser  
LAM09-02



Laser Reflector  
LAM09-03



Auxiliary Mirror  
LAM09-04



L-Type Positioning Bracket  
LAM09-05



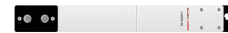
Lead Hammer  
LAM09-06



Targets Storage Bracket  
LAM09-07

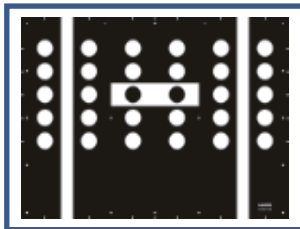


Targets Extension Rod  
LAM09-08

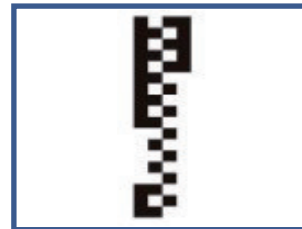


Targets Extension Rod II  
LAM09-09

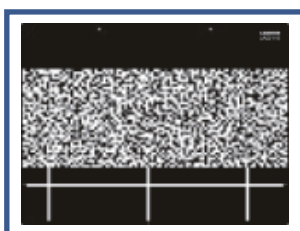
## LDW Targets – Big Targets



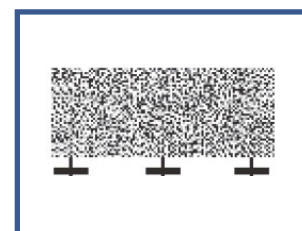
VW/Audi LAM01-02



Hyundai/Kia LAM01-09



Subaru LAM01-15



Subaru-LDW LAM01-21

# LDW Targets – Small Targets



Benz LAM01-01



Mazda LAM01-10



Hyundai/Kia LAC01-13



Honda LAM01-20



Honda LAM01-04-L



Honda LAM01-04-R



Nissan LAM01-07-L



Nissan LAM01-07-R



Mazda LAM01-16-L



Mazda LAM01-16-R



Mitsubishi LAM01-19-R



Renault/Nissan  
LAM01-12-L



Toyota LAM01-06-1



Toyota LAM01-06-2



Toyota LAM01-06-3



Mitsubishi LAM01-19-L



Honda LAM01-17







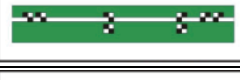


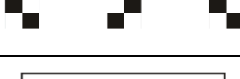








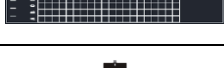




Suzuki LAM01-18-L



Suzuki LAM01-18-R

## Other Optional Targets (Purchased Separately)

Type	Name	Picture	Qty	Vehicle Make
Radar Targets	ACC Reflector LAM05-02		1	VW/Audi/Skoda/Seat/BMW/ Porsche/Jeep/Romeo/Mini/ Hyundai/Kia/Nissan/ Mitsubishi/Suzuki
	Corner Reflector LAC05-03		1	Toyota/Honda/Mazda/ Subaru/Mitsubishi
	Doppler Simulator LAC05-04		1	VW/Audi/Seat
RCW&AVM Targets kit (Asian)	Honda-AVM LAC04-01		4	Honda
	Honda-AVM LAC04-02		1	
	Nissan-RCW LAC04-11		1	Nissan
	Hyundai-AVM LAC04-10-01		1	Hyundai
	Hyundai-AVM LAC04-10-02		1	
	Mitsubishi-AVM LAC01-13		2	Mitsubishi
	Nissan-RCW LAC01-15		1	Nissan
RCW&AVM Targets kit (American)	Cadillac-AVM LAC04-06		1	GMC/Buick/Holden/ Cadillac/Chevrolet
	Ford-AVM LAC04-07		2	Ford/Lincoln
RCW&AVM Targets kit (European)	Mercedes-RCW LAC02-02		1	Mercedes
	VW-RCW LAC02-03		1	VW/Audi/Skoda/Seat
	VW-AVM LAC04-04		2	VW/Audi/Skoda
	Mercedes-RFK LAC04-08-01		1	Mercedes
	Mercedes-RFK LAC04-08-02		1	
	Renault-AVM LAC4-12-01		1	Renault
	Renault-AVM LAC4-12-02		1	
	VW-AVM LAC04-14		2	VW/Audi
LDW Target	Romeo-LDW LAM01-11		1	Romeo

# 4.VEHICLE COVERAGE

## American

GM, Ford, Chrysler, Buick, Cadillac, Chevrolet, Dodge, Jeep, Lincoln, etc.

## Asian

Kia, Hyundai, Toyota, Lexus, Honda, Acura, Nissan, Infiniti, Mitsubishi, Subaru, Suzuki, Daihatsu, Mazda, etc.

## European

Mercedes-Benz, BMW, Audi, Volkswagen, Land Rover, Jaguar, Volvo, Fiat, Opel, Seat, Skoda, Renault, Citroen, Smart, Mini, Peugeot, Porsche, etc.



# 5.OPERATION STEPS

## Step 1

Set up the TOPDON PHOENIX ADAS MOBILE PX1000



## Step 2

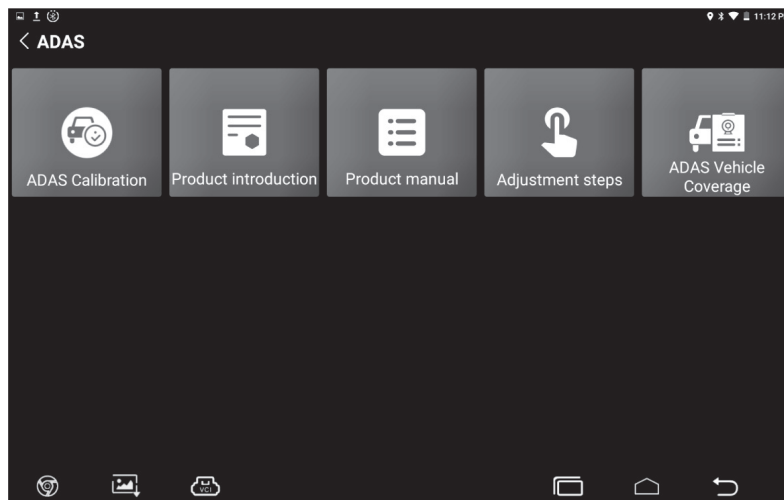
### Active the ADAS System in the Phoenix Diagnostics Tablet

Follow the steps below to activate it.



Different diagnostic tools have different accesses to the ADAS function. For details, please refer to the user manual of individual scanner.

- 1 Press the [POWER] button on the diagnostic tool to turn it on.
2. Go to 'ADAS' to enter the following screen:



The picture is for reference only, different product is different.

4. Tap ADAS Calibration to enter the ADAS activation screen.

Please choose the device serial number to activate the ADAS software:

Please enter the ADAS Activation Card password:

Activation Code

ACTIVATE

5. Scratch or scarp the designated area on the included Activation Card to reveal the password, and input the 24-digit password to activate it.
6. Now the ADAS function becomes accessible and is ready for use.

## Step 3

### Pre-calibration preparation

Plug the VCI device into the vehicles' DLC, use the diagnostic tool to identify the vehicle model



## Step 4

### Start Calibration

Choose the system which you'd like to calibrate, and follow the on-screen instruction to start the calibration until the calibration is successfully finished.

A screenshot of a diagnostic tool interface. The screen displays the title 'Adjusting Adaptive...' and the vehicle model 'PORSCHE V23.82 >> ADAS Special Function >'. Below the title is a diagram of a car with a radar reflector (LAC05-02) mounted on the cross member of the ADAS calibration tool. A red arrow indicates the distance 'L' between the radar reflector and the radar sensor, which is specified as 1200±25mm. To the right of the diagram is a list of six steps for the calibration process. At the bottom of the screen, the vehicle model 'PORSCHE 2011 Cayenne-92A(2011 - 2017)' and VIN 'WP1AG2928DLA00000' are displayed, along with an 'OK' button.

1. Place the ADAS calibration tool in the center of the front of the vehicle.  
2. Install the radar reflector (LAC05-02) on the cross member of the ADAS calibration tool and place it in Position 2.  
3. The distance (L) between the radar reflector (LAC05-02) and the radar sensor is 1200±25mm.  
4. Adjust the ADAS calibration tool to align it with the vehicle horizontally.  
5. Attach the magnetic laser base (LAC05-01) to the center of the radar reflector (LAC05-02). Adjust the height of the cross member or move the radar reflector (LAC05-02) so that the laser beam is at the center of the radar sensor. If the radar sensor comes with a mirror, the laser beam hits the center of the mirror. Adjust the radar positioning bolt so that the reflection point is in the center of the scale plate of the magnetic laser mount (LAC05-01).  
6. After alignment, remove the magnetic laser base (LAC05-01).

PORSCHE 2011 Cayenne-92A(2011 - 2017)  
VIN WP1AG2928DLA00000



## 6.AVAILABLE ON



Phoenix Lite



Phoenix



Phoenix Plus



Phoenix Pro

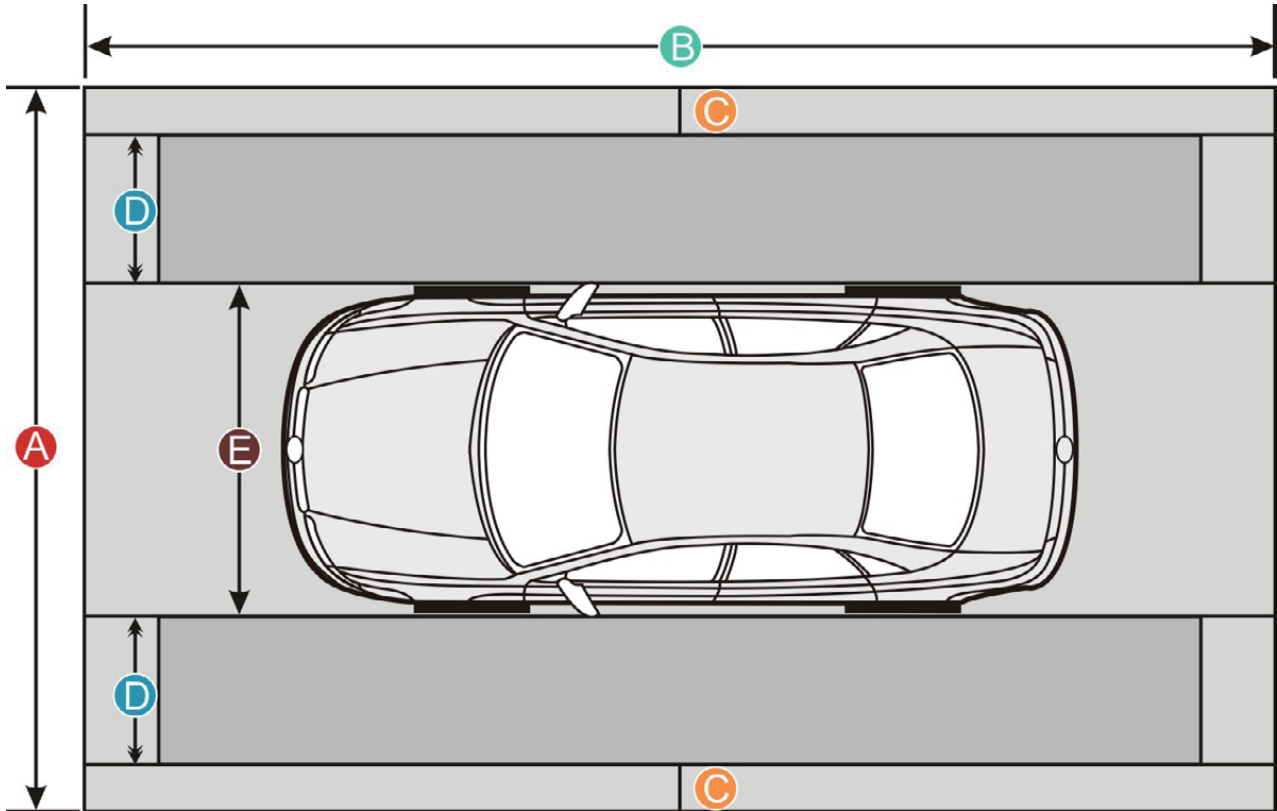
More compatible diagnostic tablets are coming soon



# 7.SITE REQUIREMENTS

## WorkStation Size

For calibrating the rear & AVM camera, the whole workstation size depends on the vehicle size and the calibration reference pattern. The following illustration describes the maximum workstation size for reference only.



	American vehicles	European vehicles	Asian vehicles
Distance A (the width of the whole workstation)	about 7.3m (287.4inch)	about 4.5m (117.2inch)	about 6.1m (240inch)
Distance B (the width of the whole workstation)	about 12m (472inch)	about 7m (275.6inch)	about 9.5m (374inch)
Distance C (a lane for technician to walk through)	at least 0.5m (19.7inch)	at least 0.5m (19.7inch)	at least 0.5m (19.7inch)
Distance D (the width of the calibration reference pattern. It varies from vehicle to vehicle)	about 1.7m (67inch)	about 0.8m (31.5inch)	about 1.6m (63inch)
Distance E (the width of the vehicle, varies from vehicle to vehicle)	about 2.9m (114inch)	about 1.9m (74.8inch)	about 1.9m (74.8inch)