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.com

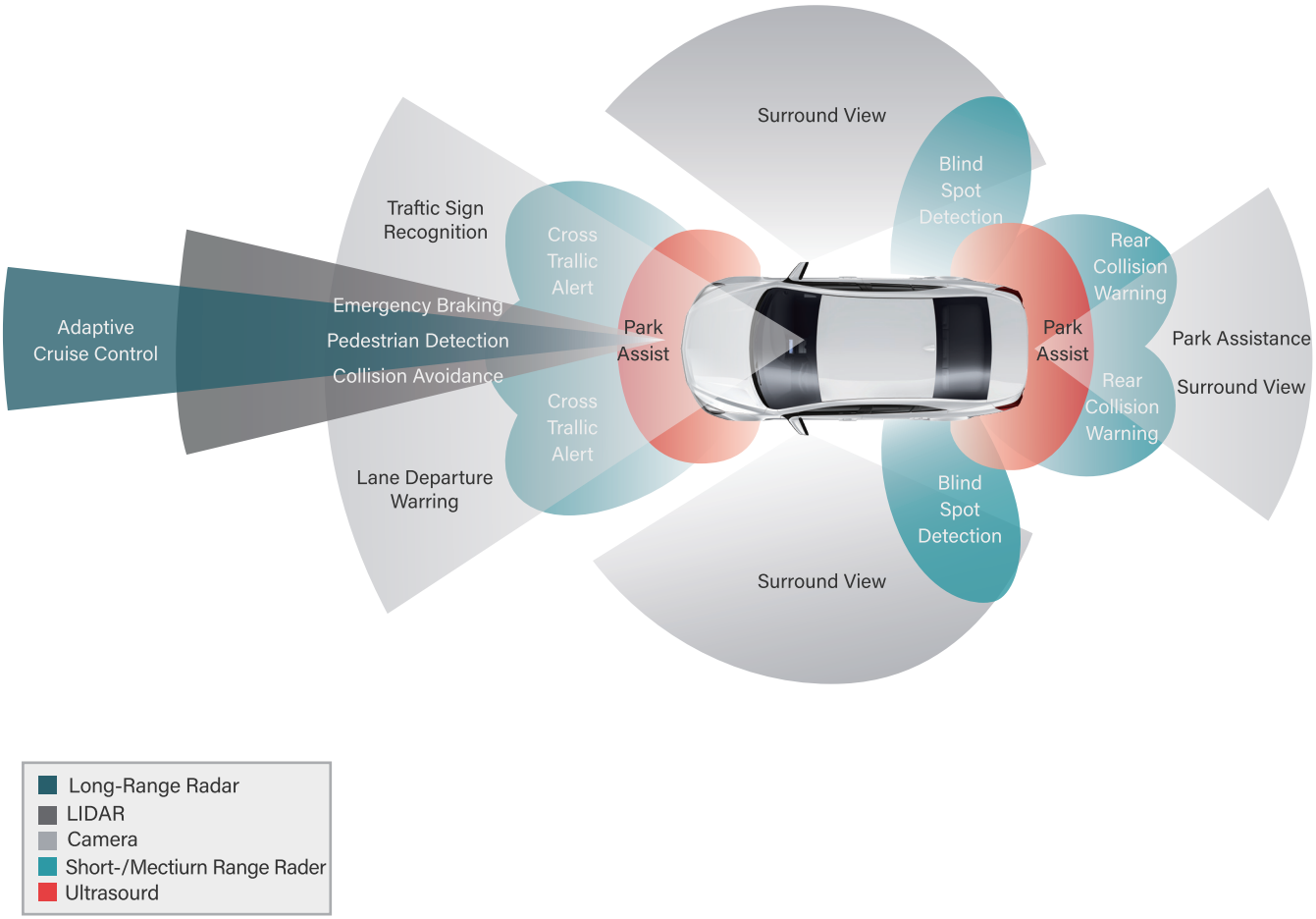
1.WHAT IS ADAS?

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:

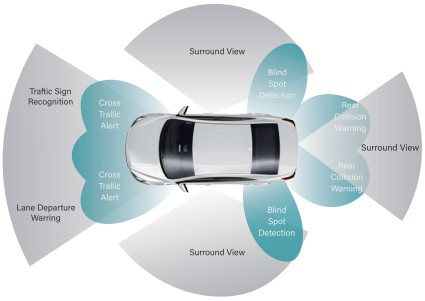


Types of Systems

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

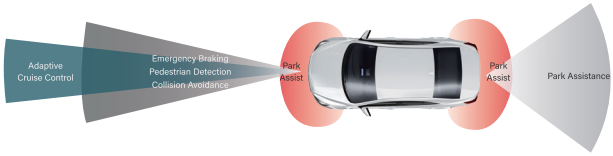
LDW – Lane Departure Warning
RCW – Rear Collision Warning
AVM – Around View Monitoring
BSD – Blind Spot Detection
FCW – Front Collision Warning
NVS – Night Vision System



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

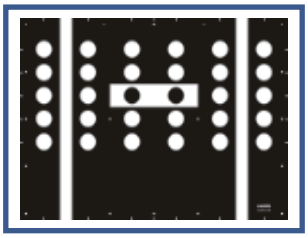
Lead Hammer
LAM09-06

Targets StorageBracket
LAM09-07

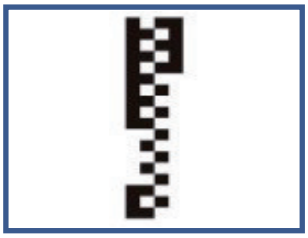
Targets Extension Rod
LAM09-08

Targets Extension Rod II
LAM09-09

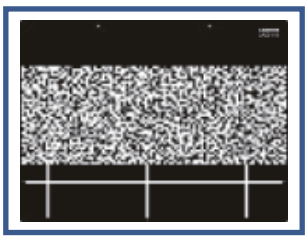
LDW Targets – Big Targets



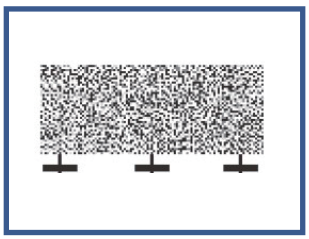
VW/Audi LAM01-02



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

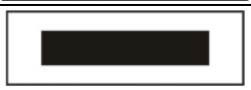
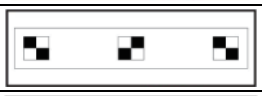
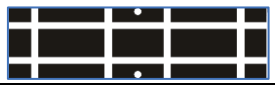
Mitsubishi LAM01-19-L

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

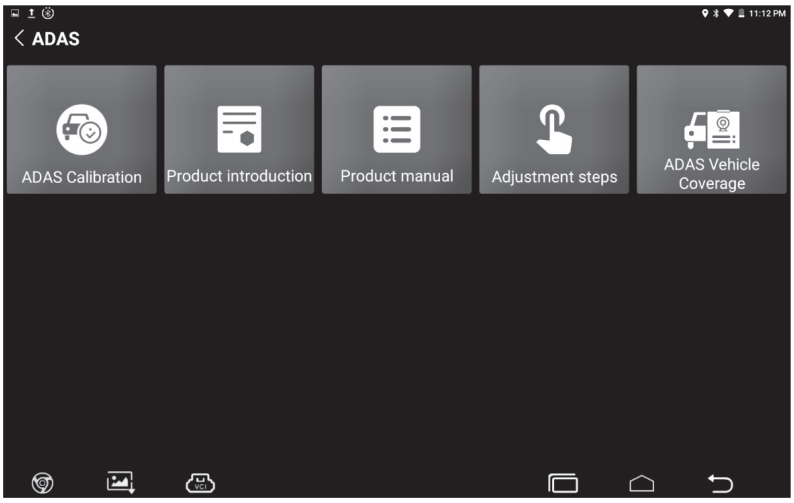
Active the ADAS System in the Phoenix Diagnostics Tablet

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.

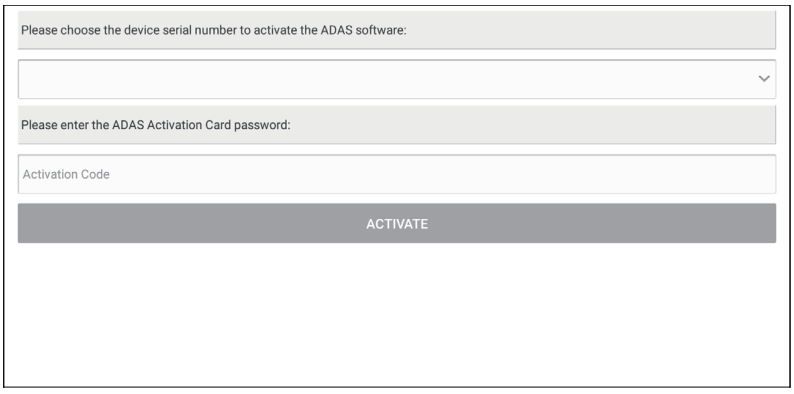
1 Press the [POWER] button on the diagnostic tool to turn it on.

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.



5. Scratch or scrap 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

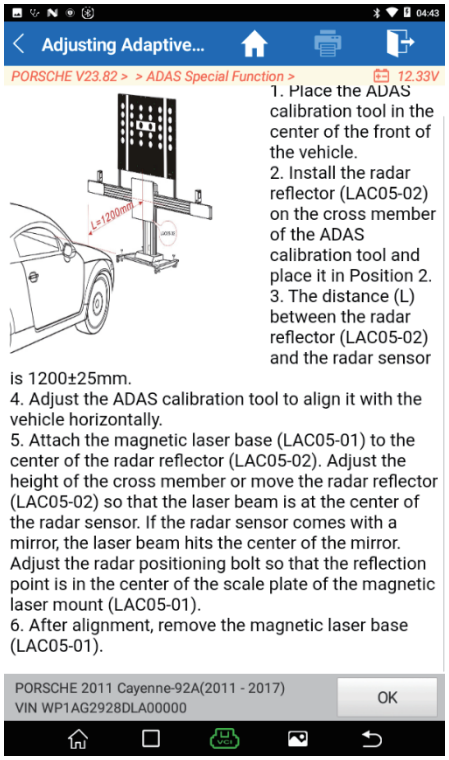
Pre-calibration preparation

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.



6.AVAILABLE ON

Phoenix Lite

Phoenix

Phoenix Plus

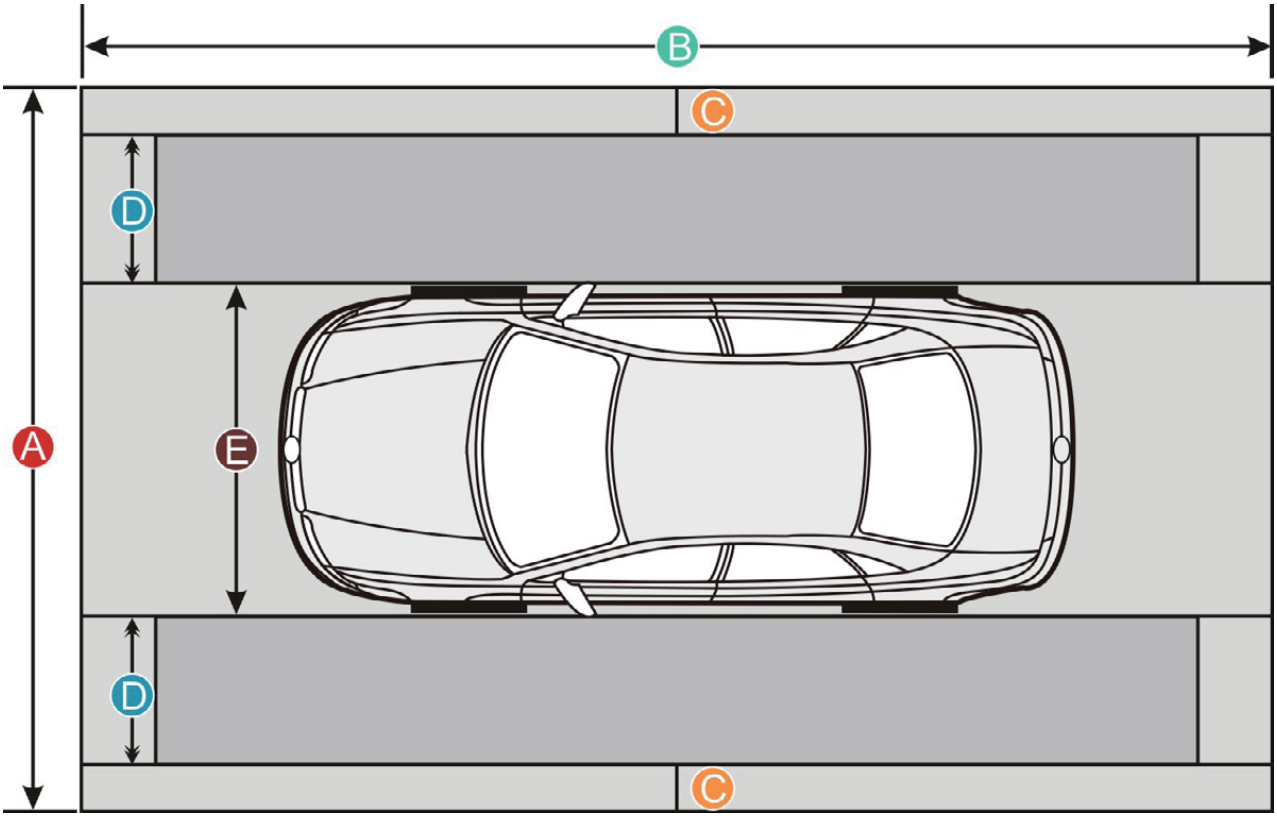
Phoenix Pro

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)