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ZL201921916463.7  
ZL201921713361.5  
ZL202020042072.3  
ZL202130038968.4  
ZL201921713362.X  
ZL202021470403.X  
ZL202130649337.6  
ZL201921713334.8  
ZL202022994401.7  
ZL201921808535.6  
ZL202130649341.2



Wheel alignment+ADAS calibration Two-in-One

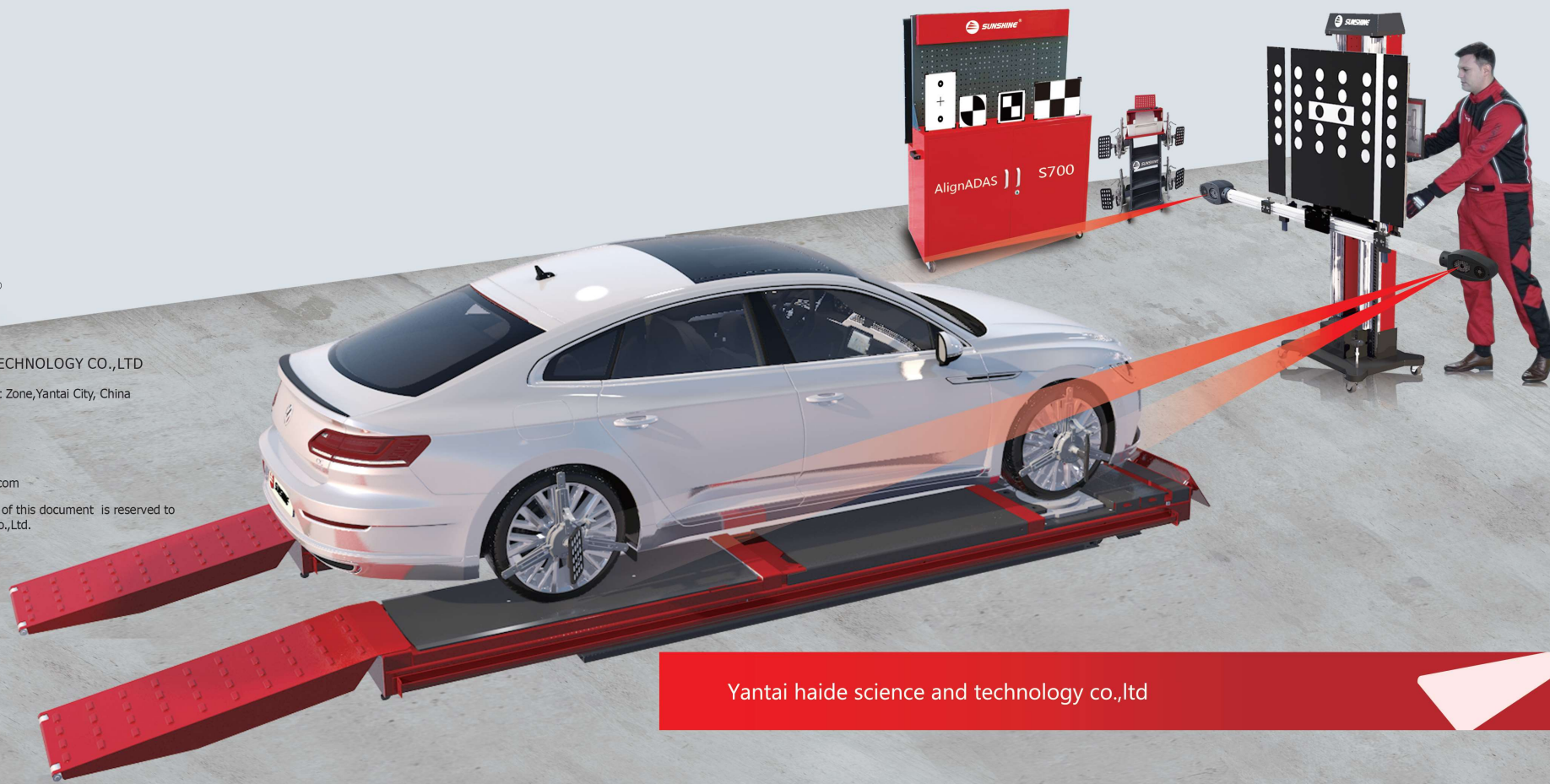
**Just one machine!**



YANTAI HAIDE SCIENCE AND TECHNOLOGY CO.,LTD

Address: No.14 Wuxi Road, Development Zone, Yantai City, China  
Post Code: / P.C.: 264006  
Tel: 86-535-6853129  
Service Hotline: 86-535-6853129  
E-mail: sanxiong@ythaide.cn  
Website: <http://www.ythaide.com>  
[ythaide.en.alibaba.com](http://ythaide.en.alibaba.com)

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## New-generation ADAS wheel alignment

### Wheel alignment and ADAS calibration one-stop solution

AlignADAS S700 integrates two functions of 3D wheel alignment and ADAS calibration. Not only fully realized the function of 3D wheel alignment, moreover, it can also realize the calibration of head ADAS sensors such as LDW, ACC, etc. Realize the visual adjustment function. It truly achieves the perfect integration of wheel alignment and ADAS calibration system products.

### AlignADAS S700

Wheel Alignment + ADAS Calibration auxiliary Function

- One machine multi-station use
- Wheel alignment detection and adjustment
- Visualize ADAS calibration
- Camera beam adjustable
- Flexible installation of numerous ADAS calibration tools
- Touch display, with rotating arm, free hover



Patent No.: ZL201911085144.0  
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ZL202020042072.3







## Wheel alignment+ADAS calibration ,software system two-in-one

### Visual and accurate operation

AlignADAS uses high-precision industrial cameras, through the visual image processing system, to establish a three-dimensional detection model of the vehicle, accurately measure the vehicle's four-wheel alignment parameters and ADAS calibration auxiliary parameters, and solve the problems related to four-wheel alignment and ADAS calibration in one stop. Let ADAS calibration enter the era of visualization, no need for meter ruler, no plumb weight, one person can do it easily



The vehicle brands are rich and the data is updated timely. It can be downloaded from the official website at the end of April and at the end of October every year.



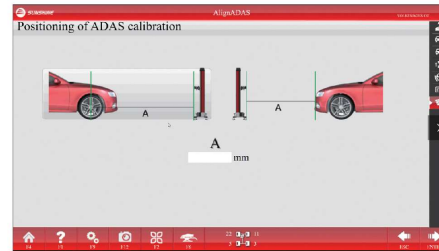
Roll compensation, 3D modeling, more accurate measurement



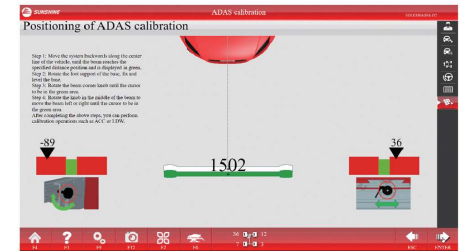
The original factory data is comprehensive and the source is reliable. You can view information such as toe, camber, rim diameter, weight, etc.



The four-wheel alignment data is comprehensive and the thrust angle of the rear wheel is compensated



Two ranging methods, can choose the distance from AlignADAS to the center of the front wheel or the distance to the front of the car



Visually place the AlignADAS and adjust it precisely to make it centered and positioned

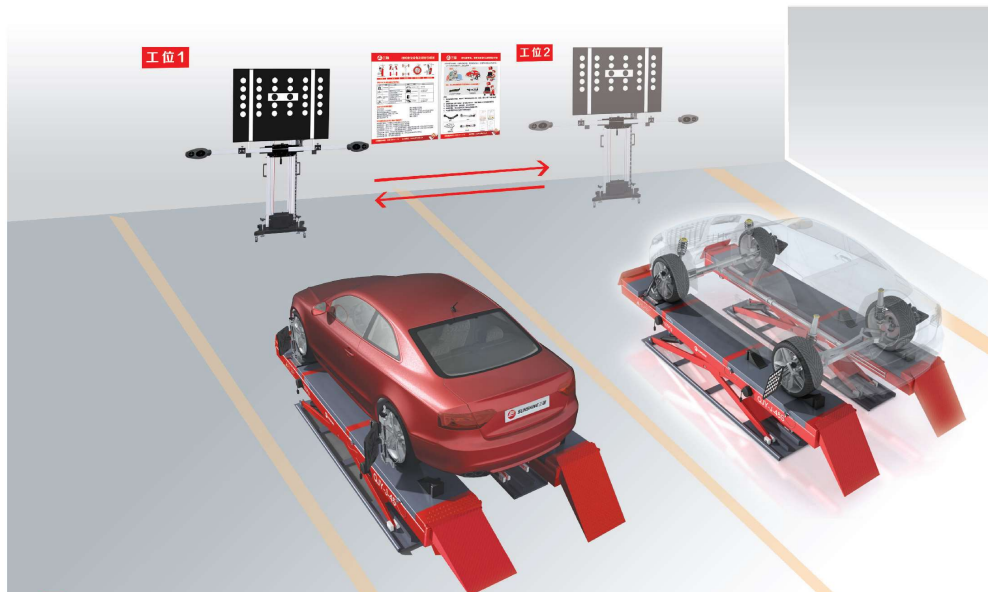
## Wheel alignment+ADAS calibration ,hardware system two-in-one

### Flexible installation of numerous ADAS calibration tools

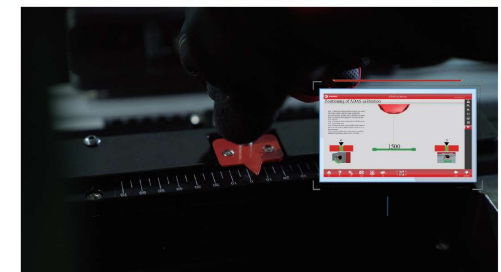


1 2  
3  
4

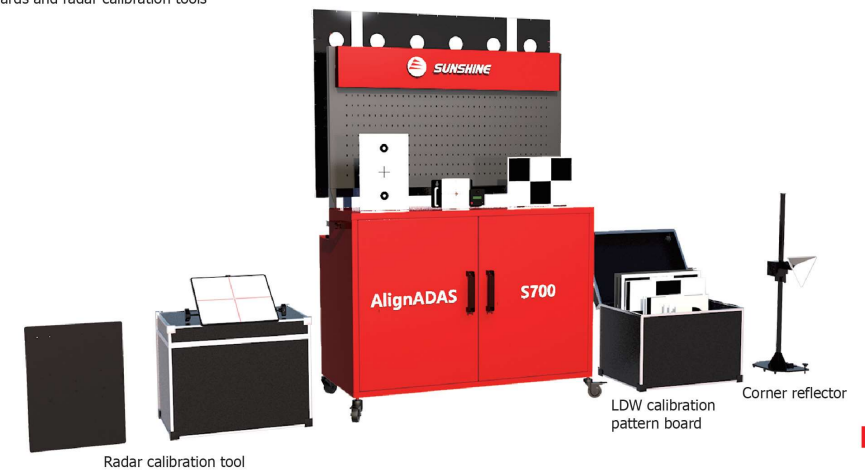
- 1.The beam can be lifted up and down to adapt to any height of the platform
- 2.Touch display, with rotating arm, free hover
- 3.Self-centering fast 3 points clamp and waterproof target board without any electronic components
- 4.Wheel alignment+ADAS auxiliary calibration , versatile and can be used in multiple stations



5



Accurate and visualized ADAS calibration auxiliary operation, flexible installation of ADAS calibration tools, support for many brand pattern boards and radar calibration tools



6



## Dual column high precision Laser shoot each other Electric lifting

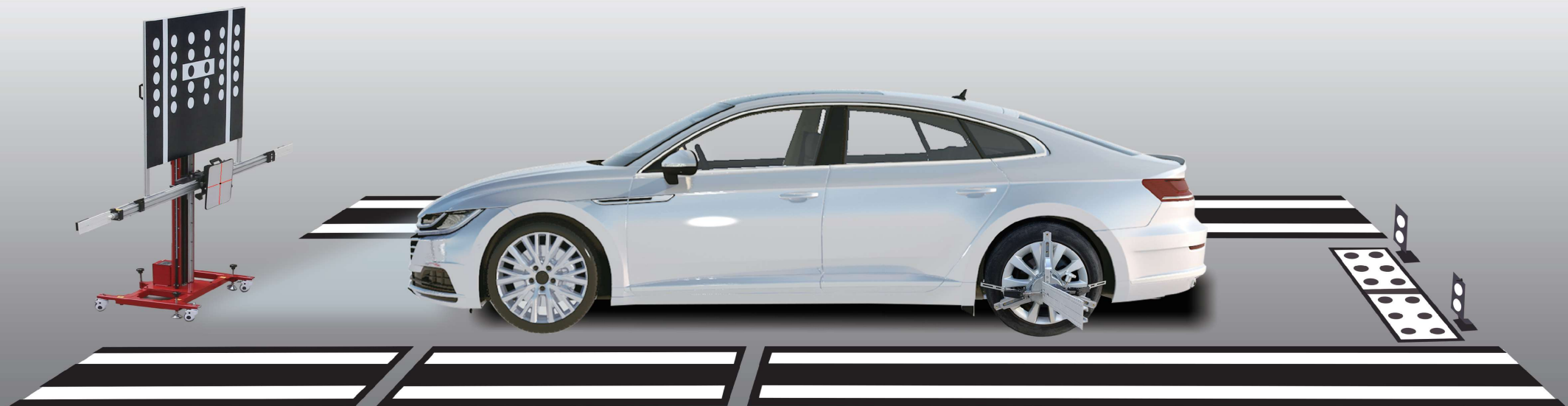
Rexa R500 ADAS calibration system adopts the principle of laser target ruler shooting each other, which can compensate the thrust angle of the rear wheel and realize the straightening & centering operation of the vehicle, with an accuracy of mm

The following ADAS functions can be supported:

- ACC adaptive cruise function
- LDW lane departure warning function
- AVM panoramic image function
- BSD blind spot monitoring function
- NVS night vision function
- Flexible installation of calibration tools to support many car brands and models

## REXA R500 ADAS calibration device

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ZL201921713362.X  
ZL202021470403.X



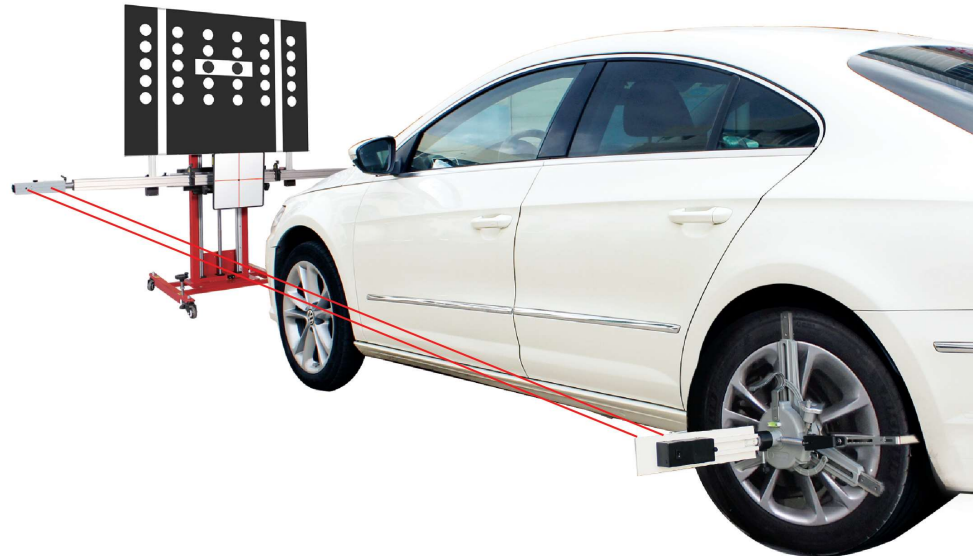
## REXA R500 ADAS calibration system



Adas calibration cross beam and laser target ruler



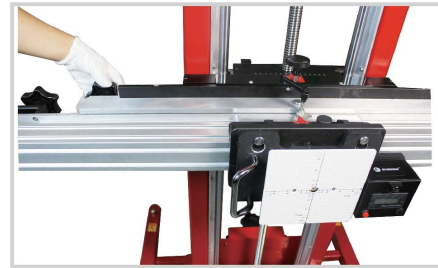
Self centering three finger fixture and laser target ruler



The cross beam is dismantled and mounted for easy storage



Adjust the height of the beam through the electric button or hand crank

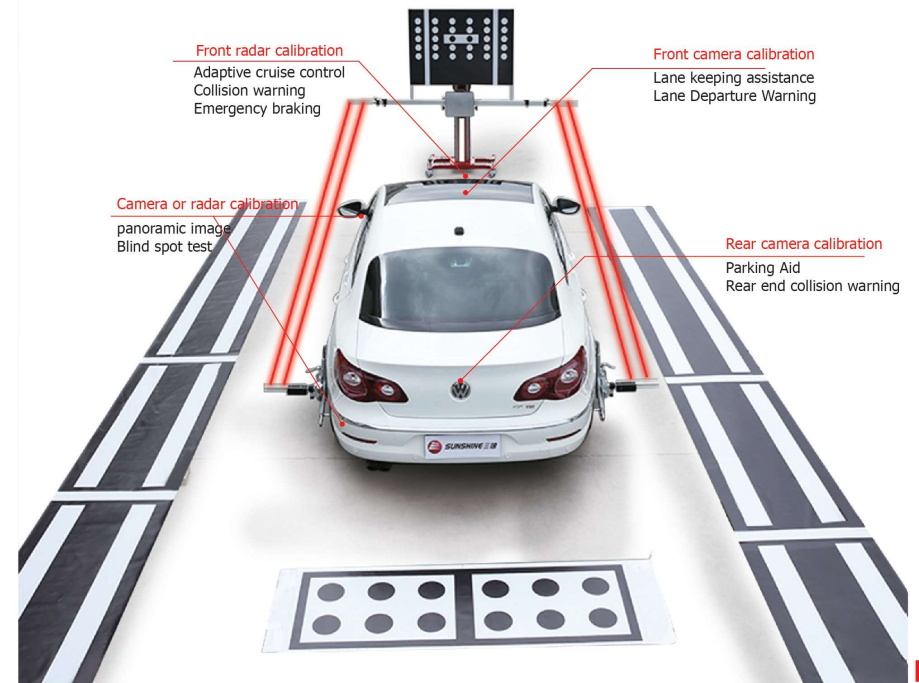


Adjust the cross beam position before and after the knob.



Move the beam left and right by adjusting the knob left and right

Support many ADAS functions and many brand models





## Single column dual tracks   Vertical storage   Exclusive app

Rexa R300 ADAS calibration system adopts the combination of high-precision laser distance tester and ruler installed in the fixture of the rear wheel to complete the alignment and straightening & centering operation of ADAS calibration. There is no need to mark on the ground and lead hammer. The operation is simple and fast. The following ADAS functions can be supported:

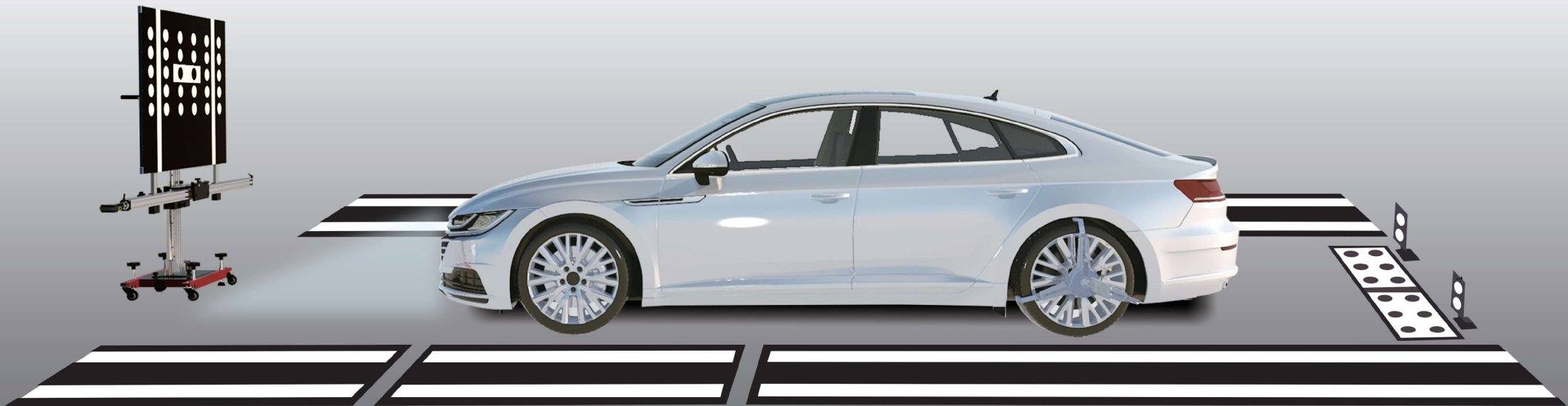
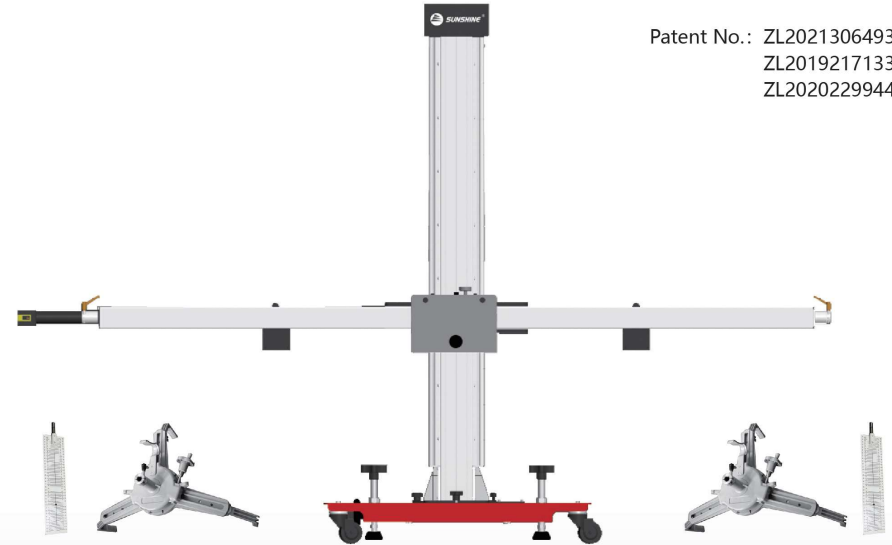


Exclusive app

- ACC adaptive cruise function
- LDW lane departure warning function
- AVM panoramic image function
- BSD blind spot monitoring function
- NVS night vision function
- Flexible installation of calibration tools to support many car brand and models

## REXA R300 ADAS calibration device

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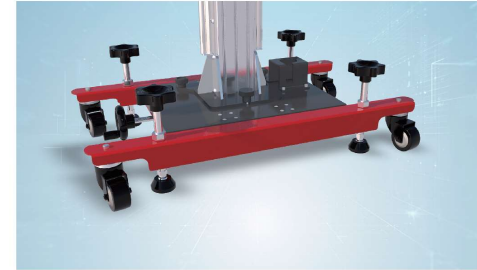


## REXA R300 ADSA CALIBRATION KIT

Adopt straight hold tire three fingers clamp,  
protect rim, no electronic parts on scale plate,  
more durable and reliable



Exclusive app



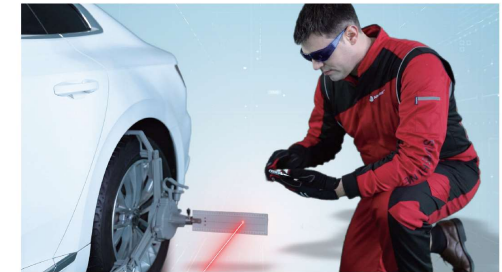
Rotating Handle, adjust and move the post to center



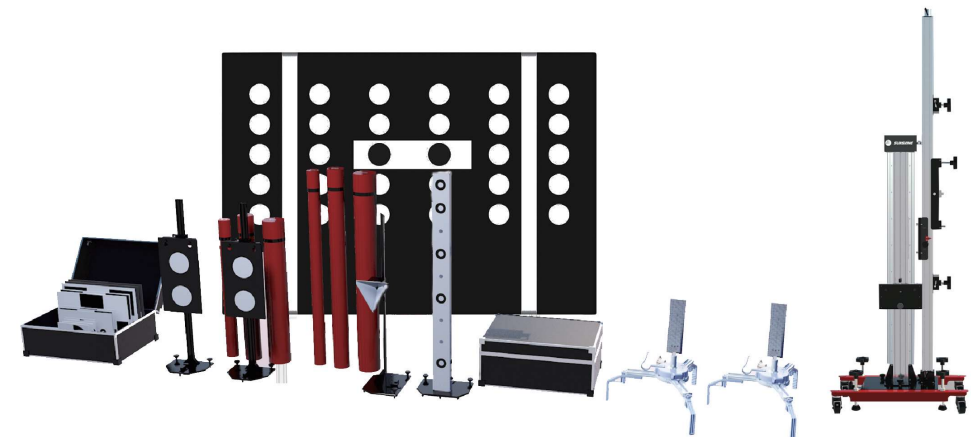
Accurate Laser rangefinder, reach MM level



Hand operate to adjust the beam height



Exclusive APP assist to operate, one person could operate



Vertical storage



Car driving safety, each era has unique technology, we have witnessed the innovation and change of Industry technology

ADAS is Advanced Driver Assistance Systems:

With the development of automotive safety standards, automotive electronics and people's driving safety requirements, in recent years, ADAS systems with active safety technology have shown a rapid development trend. More and more cars are equipped with ADAS systems.

ADAS, contains many relatively independent functional systems such as

LDW: Lane departure warning system

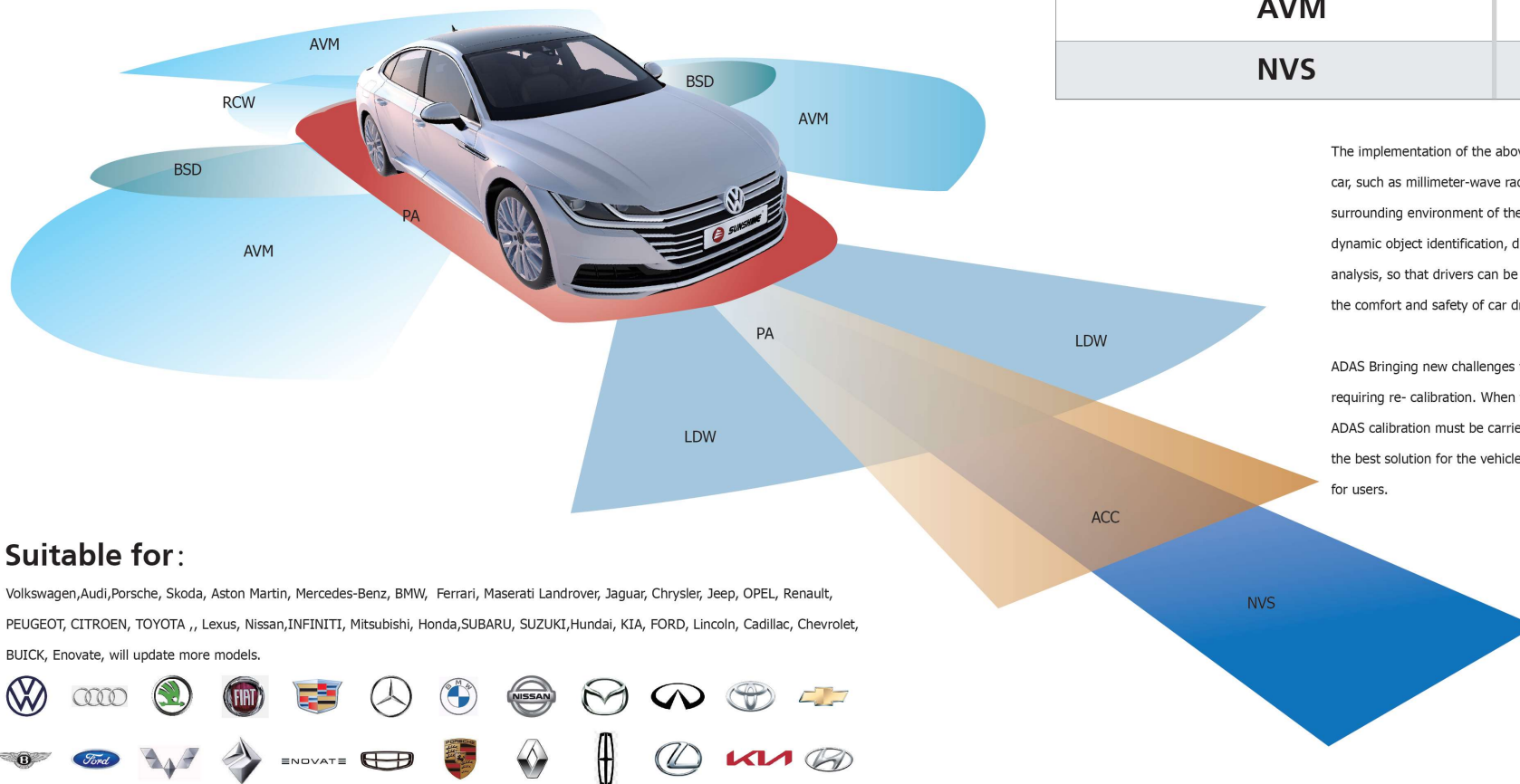
ACC: Adaptive cruise control

BSD: Blind Spot Detection

AVM : Around View Monitoring

And so on

## ADAS support



## Suitable for:

Volkswagen,Audi,Porsche, Skoda, Aston Martin, Mercedes-Benz, BMW, Ferrari, Maserati Landrover, Jaguar, Chrysler, Jeep, OPEL, Renault, PEUGEOT, CITROEN, TOYOTA ,, Lexus, Nissan,INFINITI, Mitsubishi, Honda,SUBARU, SUZUKI,Hundai, KIA, FORD, Lincoln, Cadillac, Chevrolet, BUICK, Enovate, will update more models.



## Calibrate:

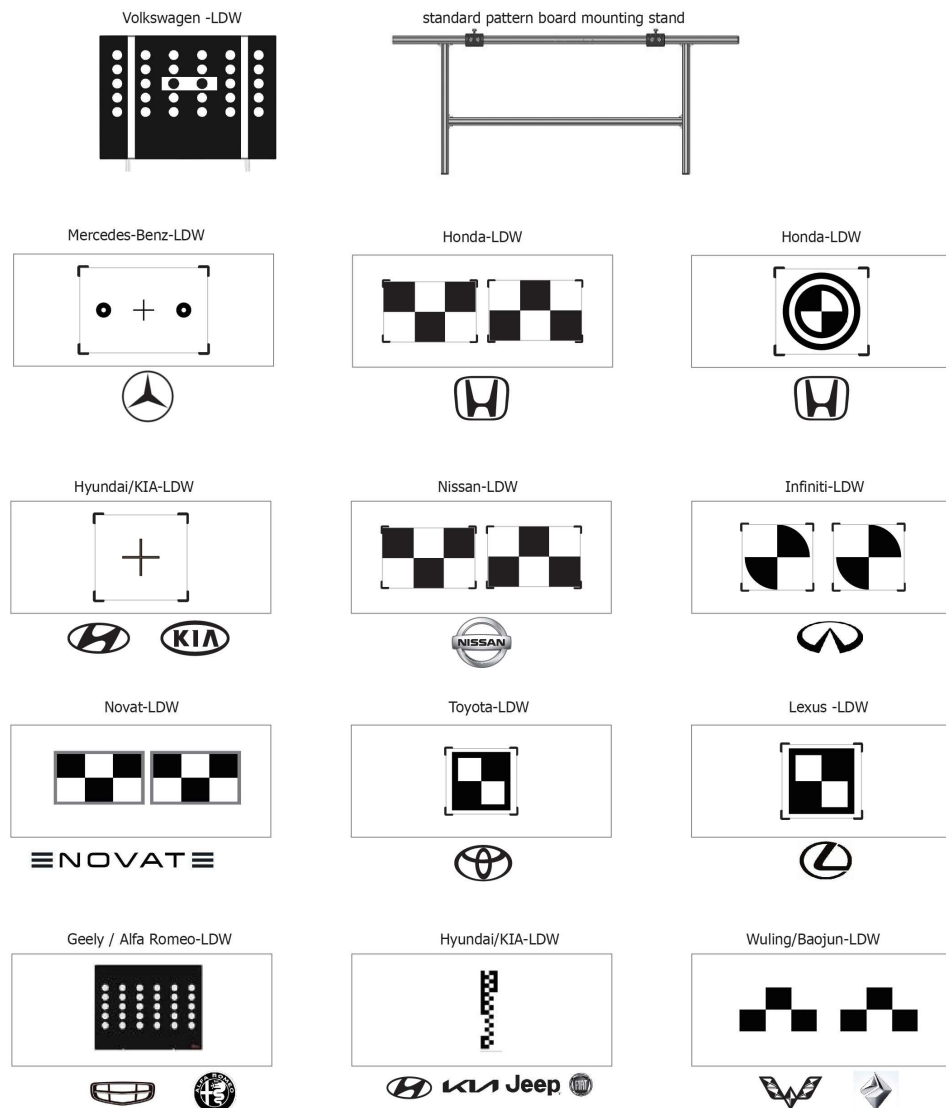
Passive Warning	Active intervention
LDW	LKA
FCW	ACC
RCW	AEB
BSD	PPS
AVM	APA
NVS	AFS

The implementation of the above system requires the use of various sensors installed on the car, such as millimeter-wave radar, lidar, camera, ultrasonic radar, etc., to perceive the surrounding environment of the vehicle body and collect data, and perform static and dynamic object identification, detection and tracking. Carry out systematic calculation and analysis, so that drivers can be aware of possible dangers in advance, effectively increasing the comfort and safety of car driving

ADAS Bringing new challenges to repair shops, seemingly simple repairs can lead to sensors requiring re- calibration. When the vehicle malfunction or collision, four-wheel alignment and ADAS calibration must be carried out to ensure your travel safety. Sunshine products provide the best solution for the vehicle's four-wheel alignment and ADAS calibration, create income for users.

## LDW Calibrating Pattern Boards

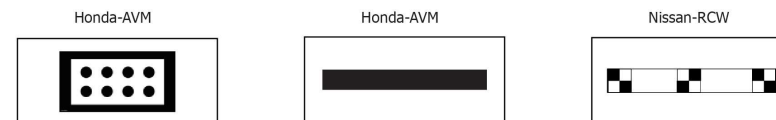
LDW calibration pattern boards and pattern board mounting stand required when replacing the front windshield



## AVM/RCW Calibrating Pattern Boards

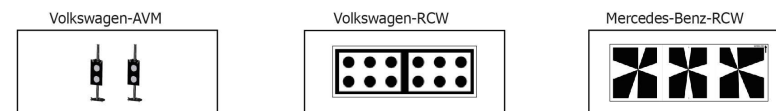
### ASIA

Honda Toyota Nissan Infiniti Lexus Subaru Mazda Hyundai/KIA



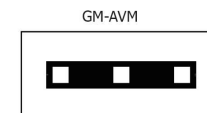
### EUROPE

Volkswagen Audi Porsche Mercedes-Benz BMW, FIAT, Land Rover, Volvo



### USA

Cadillac, Chevrolet, Buick, Chrysler, Jeep, Dodge, Ford, Lincoln

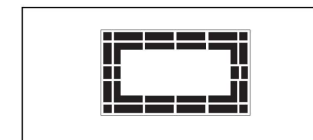


AVM calibrating pattern boards are available for many brands of vehicles, quick assembling and tidy stocking.

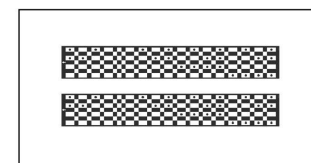
Volkswagen Audi



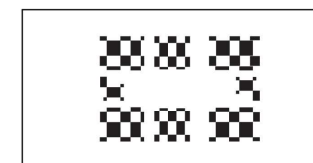
Porsche



Ford

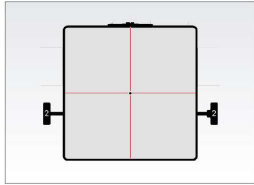


Novat





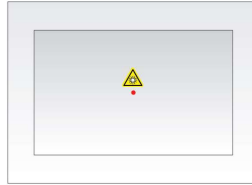
## ACC calibrating tools



ACC Radar reflector  
Calibrating ACC radar for Volkswagen/  
Benz/BMW and other more brands



Continental Radar Calibration Board  
Calibrating radar (Continental) for ACC  
function, such as Nissan/Infiniti, etc.



Volkswagen Radar Calibration Board  
Calibrating radar of ACC function for  
vehicles of Volkswagen

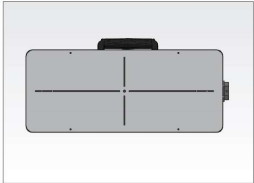


Corner reflector  
Calibrating the ACC radar for Honda  
vehicles and the blind spot detection  
radar of many other brands of vehicles

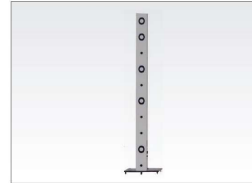


Volkswagen Radar Calibration Plate  
Calibrating ACC radar for vehicles of  
Volkswagen, Benz, etc.

## NVS Night Vision Calibration Tools



NVS calibration tool for vehicles of Volkswagen  
Calibrating NVS system for vehicles of Volkswagen,  
AUDI, Bentley, Skoda, Porsche



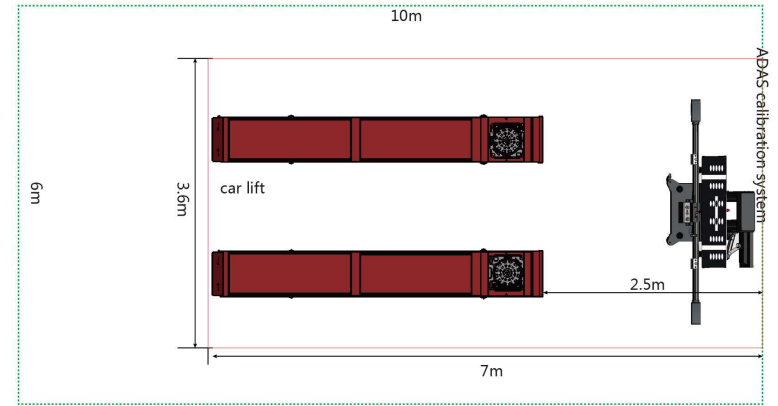
NVS calibration tool for vehicles of Mercedes-Benz  
Calibrating NVS system for vehicles of Mercedes-Benz

## Calibration Tools for Blind Spot Detection



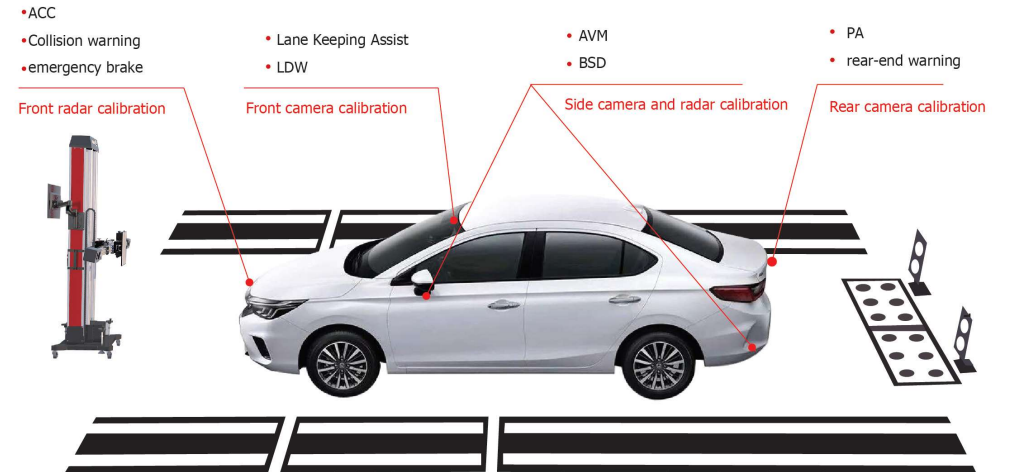
Doppler Generator  
Calibrating BSD system or Parallel Auxiliary for vehicles of Volkswagen, AUDI, Mazda

## Installation Spot(e.g. Volkswagen)

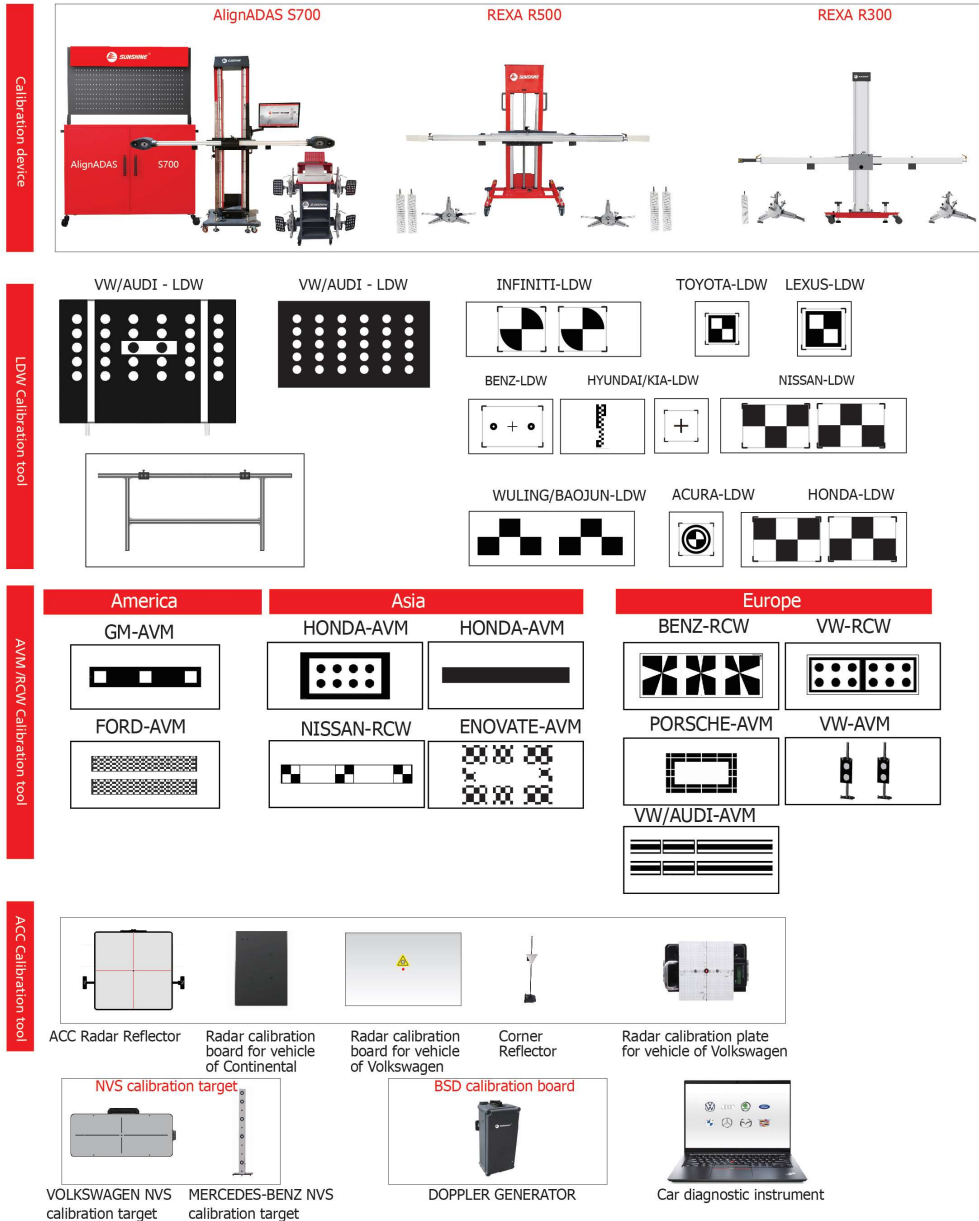


- The red square is for the spot measurement of ACC/LDW.
- The green square is for the spot measurement of AVM/RCW.

## Static calibration



## ADAS calibration device



## Introduction

### 1.What's ADAS?

Advanced Driving Assistance System,using a variety of sensors installed on the car (millimeter wave radar, laser radar, single and binocular cameras and satellite navigation) to sense the surrounding environment at any time during the driving process, collect data, and identify static and dynamic objects , detection and tracking, combined with the map data of the navigator, to carry out systematic calculation and analysis, so as to make the driver aware of possible dangers in advance, and effectively increase the comfort and safety while driving.

### 2.What is the function of REXA ADAS calibration device?

REXA ADAS calibration device is used to calibrate sensors such as radars, cameras that provide ADAS functions for vehicles.

### 3.Is it necessary to be matched use with SUNSHINE brand 3D wheel alignment when purchasing REXA ADAS calibration device?

The classic version of the ADAS calibration device can be used independently, while the AlignADAS is perfectly combined with SUNSHINE brand 3D wheel alignment to achieve faster and more accurate calibration.

### 4.Is it possible to perform ADAS calibration with an ADAS calibration device?

It needs to be used together with the car diagnostics of the corresponding vehicle and recommended to use the special car diagnostics or the designated product of SUNSHINE.

### 5.What preparations need to be done when doing ADAS calibration?

Park the vehicle on a leveled lift platform with the front wheels in the straight forward position

The calibration area must be good working lighting

keep the vehicle empty

Do not move the vehicle during calibration

Make sure no one stays in the vehicle during calibration

Complete the adjustment of wheel alignment correctly

### 6.What's the characteristics of work station for SUNSHINE ADAS calibration device

The work station has a fine-tuning structure for precise adjustment and more convenient angle adjustment

The work station is assembled with manual and automatic integrated lifting table, adjust beam height more conveniently

The work station can be compatible with ACC, LDW,NVS,BSD and other functions, with high integration

### 7.Does replacing the windshield affect LDW function?

Yes, the cameras of the windshield needs to be calibrated.

### 8.When should do calibrate for ACC function?

ACC calibration is required when disassembling or replacing the front bumper, ACC sensor, sensor bracket and car front cover

### 9.When should do calibrate for RCA function?

Removing and installing the reversing camera

Replacing the reversing camera system control unit

After accident repairs on the rear of the body or on the trunk lid

Complete the adjustment of wheel alignment

After repairs on the front or rear axle

### 10.When should do calibrate for AVM function?

Replace any AVM camera

Replacing the AVM Control Unit

Misalignment occurs in the overlapping area of AVM images

Complete the adjustment of wheel alignment

### 11.When should do calibrate for LDW function?

Front windshield removal or replacement

After adjusting the rear axle

After adjusting the suspension to change the body height

Vehicles with adaptive suspension, after replacing the body level sensor

Replacing the LDW Control Unit

### 12.Which models are the SUNSHINE ADAS calibration devices suitable for?

European vehicles,American vehicles, Japanese vehicles,Korean vehicles and Domestic vehicles