



RB-V3DV



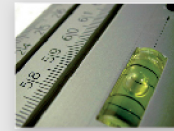
RB-V3DVI

Measure Item	Measure Accuracy	Measure Range
Front toe	±5'	±20°
Camber	±5'	±20°
Caster	±8'	±20°
Kingpin inclination	±8'	±20°
Thrust angle	±5'	±5°
Toe-in	±5'	±5°
Toe-out	±5'	±5°
Wheel deviation	±5'	±5°
Axis deviation	±5'	±5°
Track Width	120-244 cm	
Wheel Base	201-457 cm	
Tyre Diameter AC100	12"-22" (or 12"-24")	
Input	100-240VAC 1PH	
Frequency	50/60 Hz	
Power	0.75 KW	

**Features**

- 3D Measurement Technology—Automatically adjusted, more accurate and stable.
- Camera Measurement System—Innovation dual Camera+4 Target plate Measurement System.
- Target Plates—No-electronic,eliminate possible equipment failures caused by electronic or circuits.
- Calibration—Easy and Simple equipment calibration, no need to repeat this calibration regularly.
- Measurement Process—No need steel ring compensation, which shortens measurement time and improves accuracy.
- Software—Clear and user friendly graphics, the software system, read wheels data within 2minutes.
- Maintenance—Simple and easy equipment maintenance.
- Customers' approval—Certified by major international automobile manufacturers.

**Function Charactersters**



**No rim compensation & no need to lift the Car**  
V3D 3D imaging technology is different from traditional CCD four-wheel alignment technology. It can quickly and accurately perform four-wheel alignment without a horizontal test reference plane.



**Patented "V.O.D.I." operating function prompt**  
In the process of wheel alignment, operator does not need to look at the computer screen, and can simply the follow guidance of "V.O.D.I." complete the system wheel alignment successfully.



**Wireless,no batteries,no electronic sensors,no electronic components**  
Anti-collision and corrosion-resistant material target Plate,Easy maintenance and durable.



**"Dynamic"3D - 3D Imaging Measurement tech**  
Instant completion without delay - dynamic 3D imaging measurement technology allows operator to adjust various parameters of the four-wheel alignment dynamically.



**Wheel Clamp**  
Fast installation, suitable for all kinds of hubs from 12" to 22"(or 12"-24") directly (Max 26" by adding convertible).



**3D Animation Adjustment Guide**  
Provides specific guidance method for tuning vehicle, including notes on parts and tools required for tuning.



**User Guidance**  
Easy understanding function descriptions for Menu options, with clear signs and color prompts to avoid any mis operation.

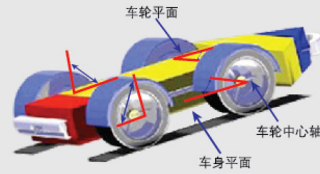


**TIP vehicle body height automatic measurement target plate (optional)**  
Easily and quickly measure the vehicle height accurately, at the same time parameters will be automatically input into the computer by using the TIP target plate.

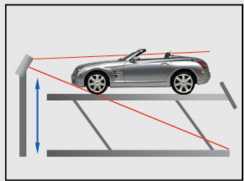


## Principle

Four wheels center axes form a base plane, Geometric relationship between the 4 wheels planes and the base plane.

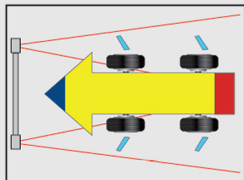


Computer, high-performance digital cameras and high-precision target disks constitute the basic elements of the V3D system. Camera LED diodes emit fixed light wave infrared rays, which is reflected by the target disk, and the signal is received and photographed by the digital camera. The computer compares the acquired image with the stored original image and data, calculates the distance and angle of the target disk.



### V3DSystem Schematic

The height of the vehicle and the camera can be adjusted at any time during the operation without affecting the measurement results.



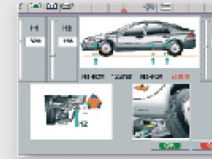
### RCP Calibration diagram

RCP calibration is a unique calibration of the V3D measurement system, and its value only needs one calibration process.

## Advantages(Compared to conventional wheel aligners)

- Wireless, no electronic sensors and components, avoid measurement problems caused by faulty or defective sensors.
- It avoids the measurement value deviation caused by the parallelism of the vehicle plane itself or the unevenness of the lift platform.
- No need steel rim compensation for obtaining the average value of the wheel plane, accuracy and reliability of the measurement are increased, and the work efficiency is greatly improved.

## Function Charactersters



### Original specification data

More than 20,000 within 30 years'Original vehicle specification data and information.



### Engine mount adjustment

V3D 3D wheel alignment feature function, Engine mounts are increasingly used in the suspension systems of front-wheel drive vehicles. Adjustment of the engine mounts changes the caster and kingpin camber of the vehicle.



### EZ Toe

The toe angle adjustment function of V3D 3D imaging four-wheels positioning can make real-time dynamic adjustment to the toe-in of one front wheel when the steering wheel is at the maximum angle.



### Kingpin Caster Angle/Kingpin Inclination Diagnosis

The kingpin inclination angle and containment angle are synchronously measured along with the kingpin caster angle. All parameters reflect the real state of the suspension system in real time, helping the operator to better judge the condition of the vehicle and adjust the four-wheel alignment.