

MAKE A DIFFERENCE



WARRANTY

Cameras and Targets: 36 months

Computer and Printer: subject to the industry practice

Other Parts: 12 months

Lawrence Auto Machinery USA

Headquarter: Ave. Suite 3G Flushing, New York, 11354, USA Asia-Pacific General Agent: Guangzhou Lawrence Auto Machinery Co., Ltd. Production Base: No. 53 Zhonghe Rd., 4th Guangcong Rd., Guangzhou

www.lawren3d.com

Tel: +86-20-8632 8363 Fax: +86-20-8631 8680

Email: info@lawren3d.com
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SMARTER CROWN

CUBE





2019

L'AWRENCE AUTO MACHINERY CO., LTD. (USA)



COMPANY PROFILE

Lawrence

Founded by Dr. M. Lawrence Wilson in New York, USA, Lawrence Auto Machinery (USA) possesses a senior technical R&D team and mature brand operation system. Its complex laboratory is dedicated to studying vehicle driving posture and providing strict product standards.



Guangzhou Lawrence Auto Machinery Co., Ltd., authorized and invested by Lawrence Auto Machinery (USA) as the sole agent in the Asia-Pacific region, is a large modern manufacturing enterprise engaged in technology introduction and application, equipment production, marketing and after-sales service.

Lawrence is well known for technology innovation in the automotive aftermarket, and has launched three generations of 3D wheel alignments, namely Smarter, Crown and Cube. Lawrence have brought vivid, intelligent and user-friendly alignment experience to the world, setting itself as the new benchmark of the industry and the world leader in the wheel alignment industry.

With the advantages of industry-leading quality and perfect service system, Lawrence products have benefited customers in over 60 countries and regions including the United States, Britain, France, Brazil etc, with long-term cooperative relationship and high international popularity.









Smarter 3D wheel alignment system strives for excellence with its innovative software interfaces and rich measurement functions. The core technology lies in intelligence, which relieves users from drudgery operation.



Cube 3D Wheel Alignment

Cube 3D wheel alignment system brings a lot of benefits with its two-column design and flexible installation feature. Easy operation and unique software greatly increase efficiency for users.



LS10 LS8

RS10 RS8

CUBE 11 CUBE 10























































U.S.A



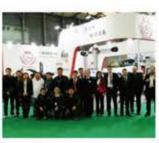




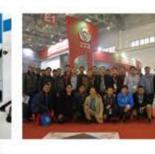




























automechanika

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ACMA automechanika NEW DELHI



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720°panoramic display technology Lawrence Smarter Series fully 3D interfaces program Normal 2D interfaces program FIVE METHODS TO IDENTIFY REAL 3D

Rolling Compensation

Fake: Static measurement or fake rolling compensation.

Real: Rolling compensation is a must.

Analysis: Only real rolling compensation can measure wheel driving posture while static measurement or simulated fake rolling compensation cannot perform value calculation.





Camera Beam

Fake: Level camera beam is a must.

Real: No need for level camera beam.

Analysis: Real 3D needs no level beam while fake 3D demands horizontal beam like CCD, thus influence caused by lift height deviation for fake 3D cannot be avoided.

Lift Platform

Fake: The two runways have to be on the same horizontal line, otherwise they will severely affect camber measurement.

Real: Horizontal lift runways cast little influence on accuracy. Hence even 50-80mm horizontal difference is acceptable.

Analysis: Fake 3D applies traditional CCD measurement models, so absolute horizontal level is needed as zero position for reference.







Camera Replacement

Fake: Once a camera is broken, the whole camera beam is required to be sent back to the factory for camera replacement and calibration.

Real: Once a camera is damaged, replacing the broken one then performing on-site calibration will solve the problem.

Analysis: Fake 3D needs platform like CCD to make calibration, which normal users usually lack.

Wheel Adaptor

Fake: The adaptors have to closely contact with the rims.

Real: Common installation.

Analysis: Fake 3D cannot make eccentricity compensation. Its accuracy is decided by physical accuracy of targets and adaptors, and relative setting between studs and rims, either of whose deformation will lead to measuring deviation.





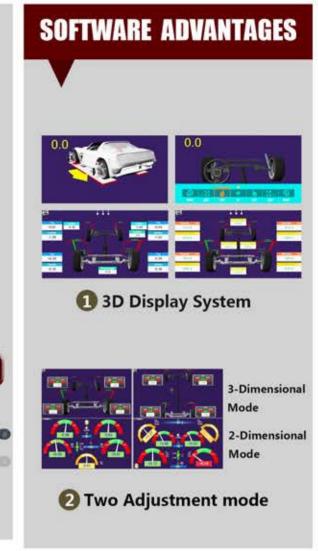


- 6.4M USB3.0 HD Industrial Camera
- Patented Hand Recognition Function
- Patented Intelligent Digital Display
- Three Points Wheel Adaptor
- Mini black Tech Target
- Ride Height Measurement

SMARTER Series



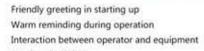




Features



Patented Intelligent Digital Display



Synchronized data Prompt numbers

Instruct steps Help words



Patented Hand Recognition Function

Covering target 3 times to zoom Global origination with patent Synchronized with the latest technology Humanized function, uplifting efficiency









Mini Black Tech Target

Made of special polymeric material with high resistance More durable and sun-filter, service life up to ten years Suitable for difficult working conditions





Three Points Wheel Adaptor



Newly developed technology Easy to grip the tire, eliminating metal-to-metal contact and subsequent rim damage



Newly developed and with patent Easy to grip the tire, eliminating metal-to-metal contact and subsequent rim damage bigger tires



6.4M USB3.0 HD Industrial Camera

Newly upgraded industrial camera with high definition More stable measurements and faster

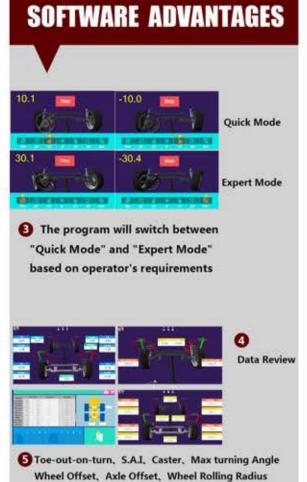




Smarter Alignment Software

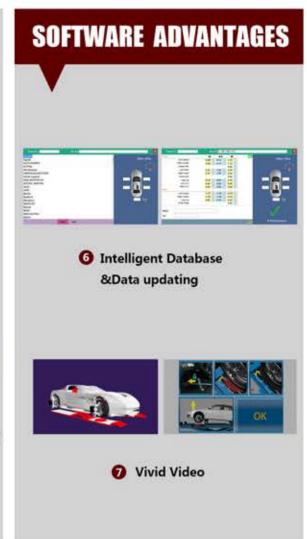
Displaying vehicle from 720° viewing angle Authentic image, simple and easy to understand Real-time measurement, high efficiency Patented system, unique and reliable











Features

Smarter Kingpin Measurement Mode

Three modes for kingpin measurement

Intelligent identification of any mode according to

measurement, R/KM, Setback, Thrust angle

user's operation





Smart-T0E1



The backlash has no influence on toe adjustment

Adjust the toe without steering wheel holder for vehicles with

09 Smarter Auto Tracking System

Auto camera beam synchronized with the up and down of the vehicles Continuously monitoring on target position, offering feedback of target state any time



11 Smart-TOE2

More special cars can be aligned, such as Audi, which demands for positive toe during adjustment

Turn the front wheels left or right and access difficult adjustment points while still displaying centered toe readings Reduce the redundant steps in front toe adjustments





12 Ride Height Measurement

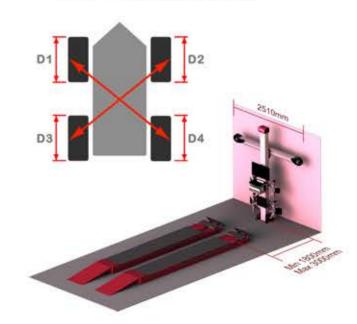
Equipped with function of ride height measurement Largely facilitating wheel alignment for high-end vehicle models

Detecting of vehicle suspension

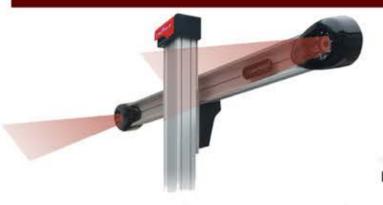


Cross Diagonal

Identifying vehicle frame or structural conditions Good helper in alignment adjustment



ACCESSORIES







Mini Black Tech Target

Three Points Wheel Adaptor



AutoTrack Column

Fixed Column



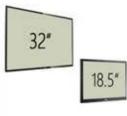
Turn Plate



Quick Clamp Adaptor Optional



CD & Dongle



Monitor 32 & 18.5 inch



PC



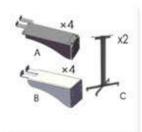
Printer



Luxury Cabinet



All-in-one Console with Built-in CPU



Wheel Clamp Adaptor



Drive-on Camera



Wheel Chock



Wheel Clamp & Strap



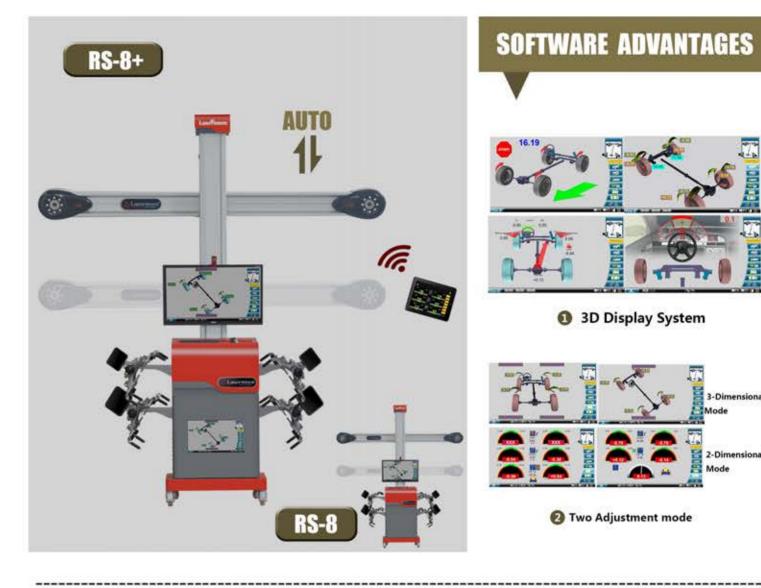
Clamp Extendor



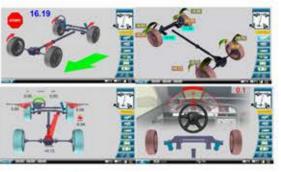
A Wheel Holder B Brake Pedal Depressor C Antistatic Needle



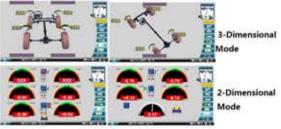




SOFTWARE ADVANTAGES



3D Display System



2 Two Adjustment mode

Features



Quick Clamping Adaptor (Optional)

Newly developed and with patent Easy to grip the tire, eliminating metal-to-metal contact and subsequent rim damage Can work with bigger tires



Patented Intelligent Digital Display

Warm reminding during operation Synchronize Data Prompt Numbers Instruct Steps













Mini Black Tech Target

Made of special polymeric material with high resistance

More durable and sun-filter, service life up to ten years

Be suitable for difficult working conditions





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Auto Tracking System

Auto camera beam synchronized with the up and down of the vehicles Continuously monitoring on target position, offering feedback of target state any time





Smart-Toe1

The backlash has no influence on toe adjustment Adjust the toe without steering wheel holder for vehicles with big backlash

The steering will be always center









Smart-Toe2

More special cars can be aligned, such as Audi, which demands for positive toe during adjustment

Turn the front wheels left or right and access difficult adjustment points while still displaying centered toe readings Reduce the redundant steps in front toe adjustments





SOFTWARE ADVANTAGES



Expert Mode

 Toe-out-on-turn measurement &Max Turning Angle





O Data Review



(S) Car Body Dimension&Printout





SOFTWARE ADVANTAGES



Intelligent Database&Data updating



Vivid Video



Features

Jack Up Adjustment

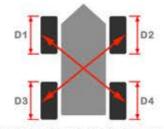


After alignment measurement, the values can be frozen for jack up adjustment



Cross Diagonal

Identifying vehicle frame or structural conditions Good helper in alignment adjustment





Engine Cradle Adjust

Provide visual reference for simultaneous

S.A.I and caster adjustment for vehicles with front sub-frames or

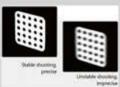




Image Stabilizing System

Self-developed technology

No limit for rolling compensation, easy operation Cameras shoot on targets consistently for

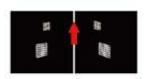




Fixed Model Aid

For fixed models, the program can guide the operators to achieve the best height of vehicles for alignment measurement







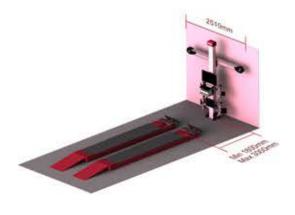
Hand-held Aligner

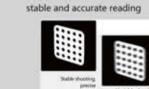
Built-in wifi LAN system Data display synchronized with monitor Identify selected model automatically Remote-control each step Free software update Android system all applicable











ACCESSORIES







Mini Black Tech Target

Quick Clamp Adaptor







Fixed Column



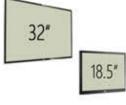
Turn Plate



Three Points Wheel Adaptor Optional



CD & Dongle



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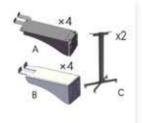
Printer



Luxury Cabinet



All-in-one Console with Built-in CPU



Wheel Clamp Adaptor



Drive-on Camera



Wheel Chock



Wheel Clamp & Strap



Clamp Extendor



A Wheel Holder B Brake Pedal Depressor C Antistatic Needle



CUBE SERIES INTERPRETATION

Cube 3D wheel alignment greatly meets the site requirements with two-post design, making installation more flexible and convenient. It's suitable for lift and pit platforms and it can measure both cars and light trucks. The idea of Cube is to serve more customers with its fantastic functions.



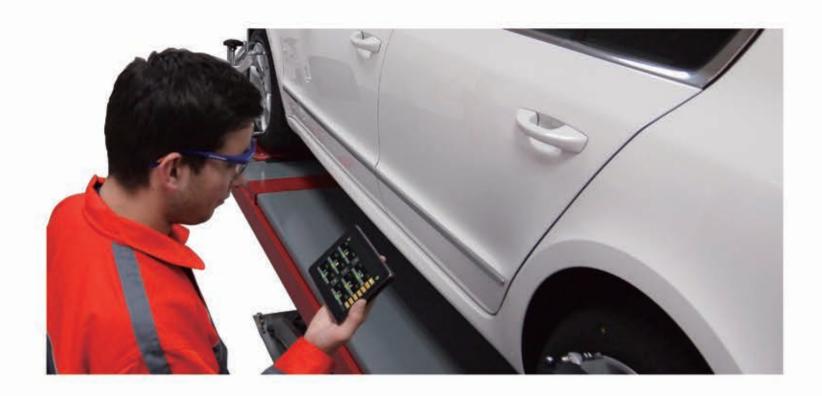
- Flexible installation, suitable for more site requirements
- Synchronized calibration provides accurate measurement.
- No need for on-site calibration, achieving maximum efficiency.
- ✓ IAA lifting system.



Standard Configuration

3D Alignment Program, Aluminum Column, Collapsible Console, Four Wheel Adaptors, Unique Black Tech Targets, Branded Computer, 21.5 inch Monitor, Branded Printer, Drive-on Camera, Mouse, Keyboard, Turnplates, Wheel Chocks, Steering Wheel Holder, Brake Pedal Depressor, Antistatic Needle

<u>Cube design, leading innovation.</u>



» Cube 10

Dual-column Design

Exquisite and fashionable, saving space for installation and operation greatly

Designed Specially for Pits

On-site calibration, more precise

Optional Display System

- ✓ CUBE 10+: Dual display system
- ✓ CUBE 10: Single display system





Standard Configuration

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TECHNICALPARAMETERS

Measurement Function

Basic Measurement: toe, camber, caster, kingpin inclination, setback, thrust angle
Additional Functions: Smart Toe, max turning angle, toe-out-on-turn, tire radius, tire rotations rate, axie
offset, wheel offset, track/wheelbase, two-wheel measurement, vehicle lifting measurement, alignment
platform level detection, toe constant value measurement

Measurement, Range, and, Accuracy,

Items	Camber	Caster	S.A.I.	Toe	Setback	Thrust Angle	Wheel Offset	Axle Offset
Range	±45°	±40°	±40°	±30°	±5°	±5°	-	-
Accuracy	±1′	±1′	±1'	±1′	±1'	±1'	± 1mm	± 1mm

Equipment Specifications,

1	Operating Temperature	-30° C-50° C		
2	Power Consumption	300W		
3	Power Consumption (for auto beam)	350W		
4	Wheel Size	279.4mm-609.6mm		
5	Tire Diameter	No Limit		
6	Track Width	1220mm-2450mm		
7	Wheel Base	1600mm-4700mm		
В	Power Requirement	110-240V 50/60Hz		
9	Profile of Wheel Adaptor	11-24 inch		
10	Profile of Target	Small 27cm*27cm		
33	Tomo of Forgot	Mini 14cm*14cm		
1	Rolling Compensation Style	Backward / Forward		
2	Camera Resolution	6.4 - 5 Mega pixel		
3	Suggested Distance from Camera to Tumplate	1.6m-2.5m		

WORLD-LEADING WHEEL ALIGNMENT MANUFACTURER

Next New Arrival



You can also



Share your thoughts with us on the System, Let's grow/and progress together!

Note				
Comm	ent & Sugg	estion.		
COMMIN	ent a ougg	gestion.		
RS10	15			
Laser Wheel Balancer	B605 Laser Wheel Balancer	X618 Magic Tire Changer	X306 Top Auto Tire Changer	X203B-PX8 Top Tilt Tire C
		x403 Center-Clamp Tire Changer		BSOS Manual Wheel Bal