



FCAR FD-505

Portable 5D Wheel Alignment System

Movable Design | Wide Adaptation | High Accuracy



Shenzhen Fcar Technology Co., Ltd.

-  Website: www.fcar.com
-  Email: marketing@szfcar.com
-  Telephone: +86-755-82904730
-  Social Media: facebook.com/szfcar/

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MAIN FEATURES OF FD-505



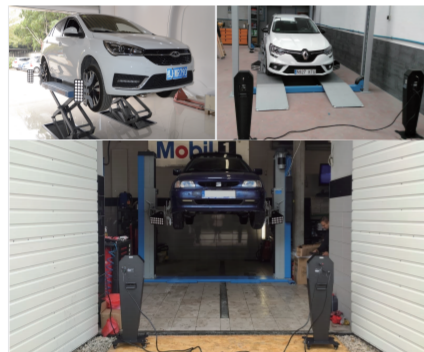
Portable and Space-Saving Design

The biggest advantage of FD-505 is the ability to be moved around as you need. Two movable stands can switch to different stations easily, which meets the needs of high efficient workshops.



Self-Developed Alignment Software

The software on FD-505 is 100% developed by FCAR team. After years of R&D, there are thousands of car models included in FCAR database. And still the database is enlarging and updating every year.



For All Types of Car Lifts

FD-505 is adapted to all kinds of car lifts, no matter scissor, 2-post or 4-post types. It is no doubt that FD-505 is able to work in all small or big workshops and garages.



No Need to Assemble

The aligner units are already fully assembled in FCAR factory. You can use it directly without all the complicated and time-wasting procedures of installation.



5 HD Camera Matrix

With the newest 5D technologies, FD-505 features 5 HD cameras to capture every little detail of adjustment and output more accurate data compared to traditional 3D aligners.



All-at-Hand Operations

The operator can monitor the wheel alignment operations with a tablet, flexible and can walk around to check on the car condition any time.



Sync Display with Android TV

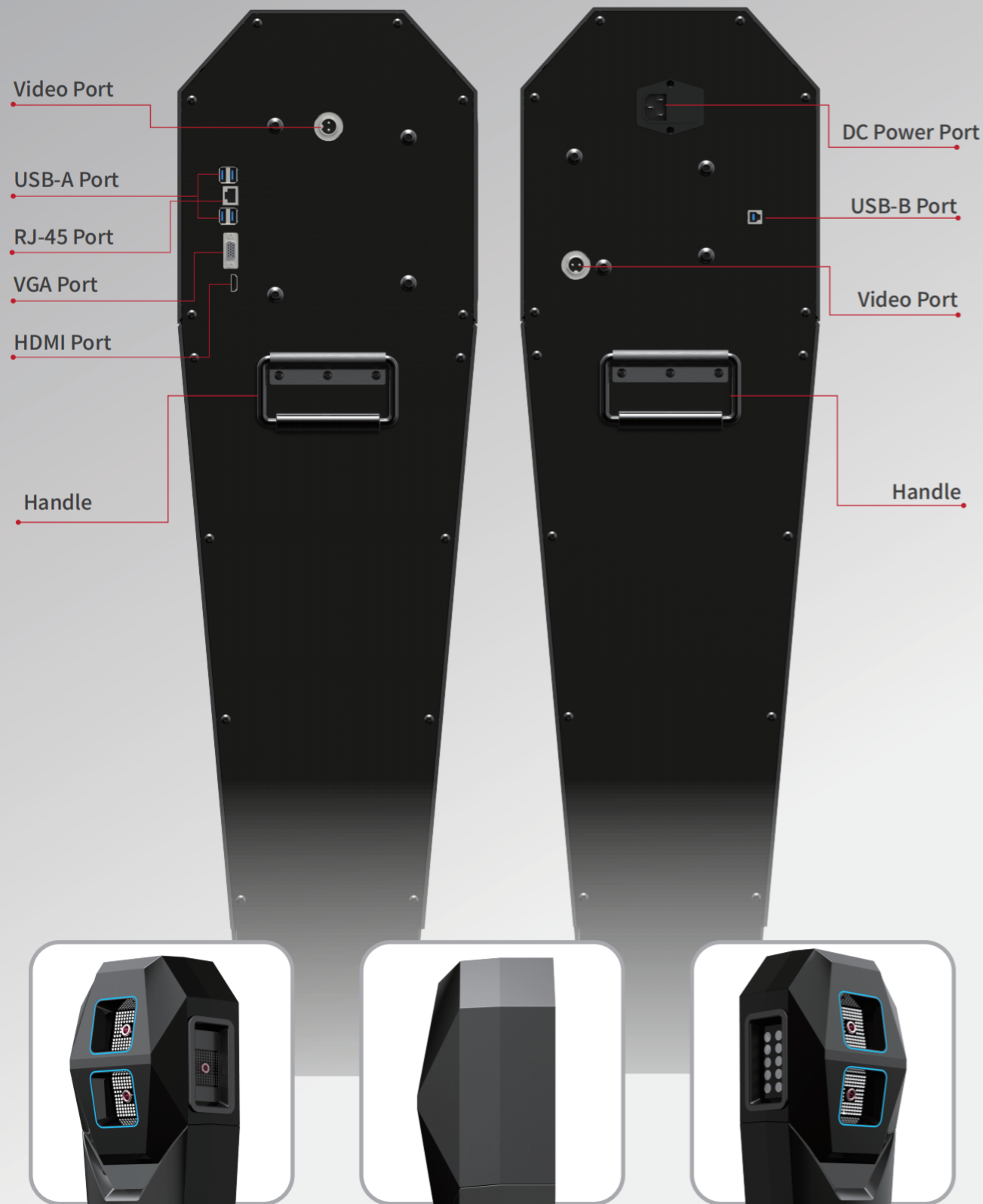
The tablet of FD-505 can connect with Android TV to share display via software projection or HDMI cable. The tablet and TV can work simultaneously for dimension in workshops.



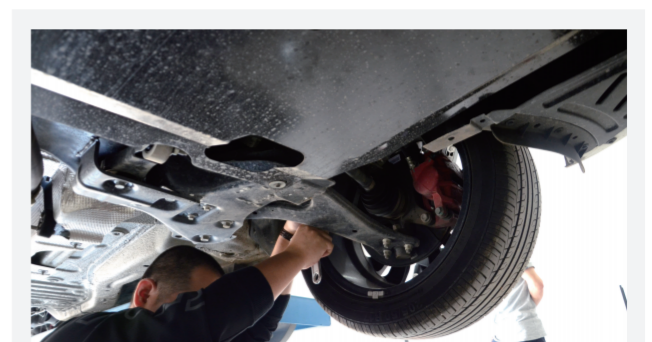
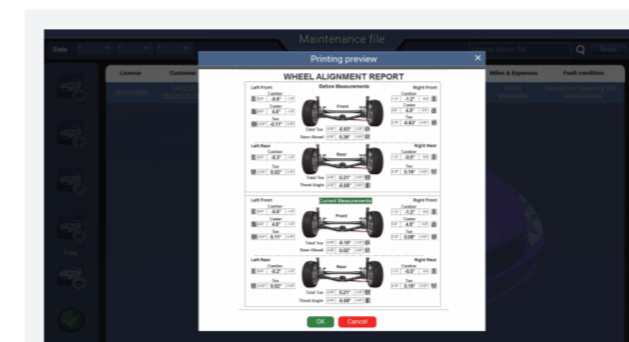
WIFI Connection

The tablet and PC fully communicate via WIFI connection, a PC inside the camera stand which can operate using keyboard and mouse.

DESIGN AND LAYOUT



QUICK AND EASY SETUP WITH FAST RESULT



Full package set

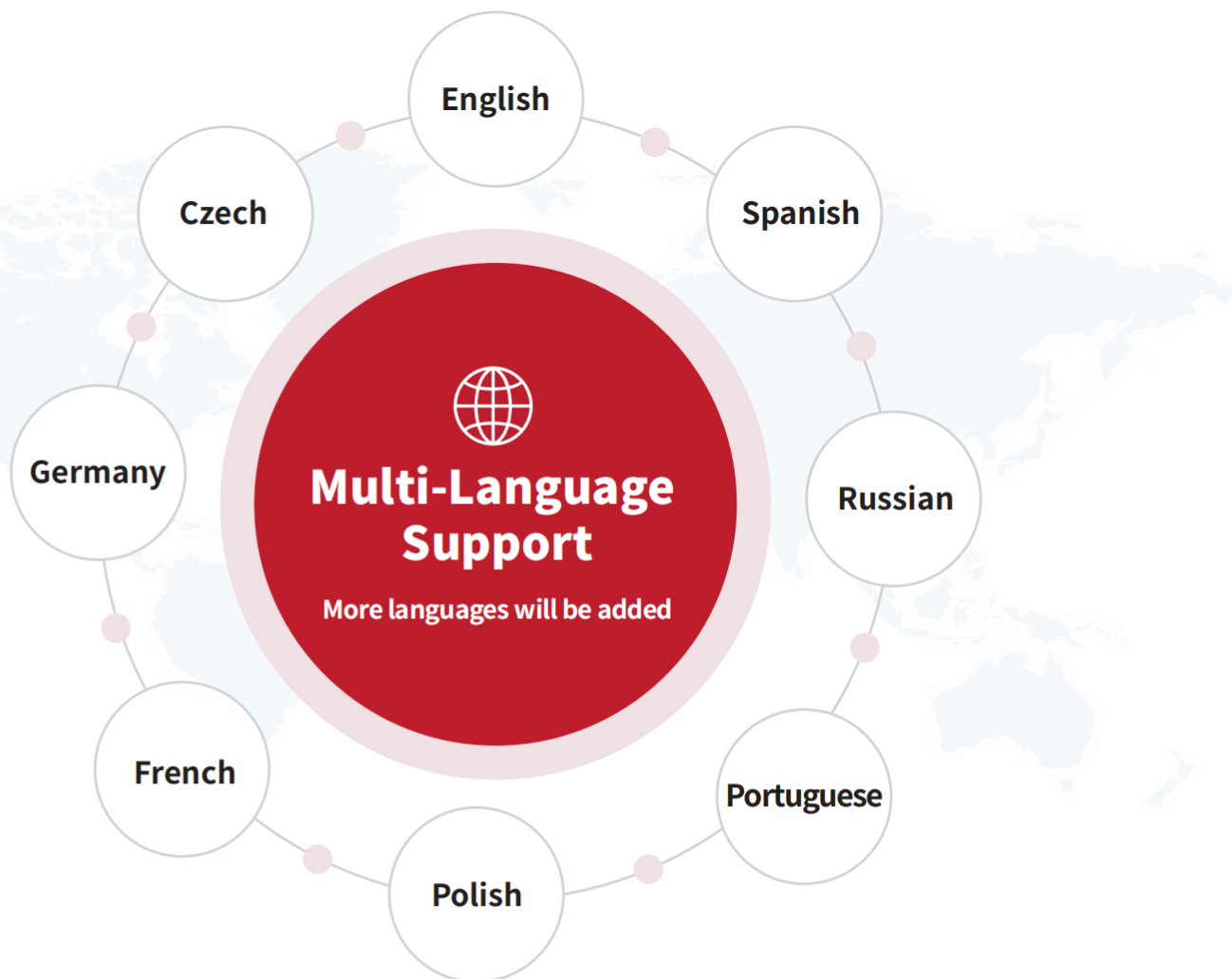


Technical Parameters

Ground Test		FD-505
Basic Functions	Camber	✓
	Caster	✓
	KPI	✓
	Toe	✓
	Setback	✓
Extensive Functions	Thrust	✓
	Rear axle yaw	✓
	Wheel deviation	✓
	Axis deviation	✓

Lift Test		FD-505
Basic Functions	Camber	✓
	Caster	✓
	KPI	✓
	Toe	✓
	Setback	✓
	Thrust	✓

Technical Parameters	Precision	Variable
Toe	±2'	±20°
Camber	±2'	±10°
Caster	±6'	±20°
KPI	±6'	±20°
Setback	±2'	±5°
Thrust	±2'	±5°
Track width difference	±2mm	
Axle distance	±2mm	



Software Details

Model	Starting year	Ending year	Deployment	Class	Engine	Body
Custom model	CL	2001	2003			except Type 5
Custom model	CL	2001	2003			Type 5
Audi	CM (Canada)	2006	2007			
Audi	CM (Canada)	2008	2010			except C stamp
Audi	CM (Canada)	2008	2010	rear upper control arm.		with C stamp on
Buick	EL	2000	2000			(Canada)
Cadillac	EL	2001	2002			(Canada)
Chevrolet	EL	2003	2005			(Canada)
Chevrolet Truck & SUV	LX	2013	2015			LX Hybrid
Chrysler	LX	2016	2022			
Daimler	Integra	2000	2001			except Type 8
Dodge	Integra	2000	2001			Type 8
Dodge (RAM) Truck & SUV	MX	2001	2006			
Fiat	MX	2007	2013			
Ford	MX	2014	2016			
Ford Truck & SUV	MX	2017	2018			except 18 wheels
Genesis	MX	2019	2020			Base Models
GM	MX	2017	2018			with 18 wheels

Select Mode

Name	Left			Right		
	Min	Standard value	Max	Min	Standard value	Max
Toe	-0.00°	0.00°	0.00°	-0.00°	0.00°	0.00°
Camber	-1.17°	-0.17°	0.83°	-1.17°	-0.17°	0.83°
Castor	0.17°	1.17°	2.17°	0.17°	1.17°	2.17°
SAI	-	-	-	-	-	-
SA	-	-	-	-	-	-
Toe out	3.50"	5.50"	7.50"	3.50"	5.50"	7.50"
Toe	0.04"	0.08"	0.16"	0.04"	0.08"	0.16"
Front wheel						
SAI	-	-	-	-	-	-
SA	-	-	-	-	-	-
Toe in	-3.50"	-5.50"	-7.50"	-3.50"	-5.50"	-7.50"
Toe	-0.04"	-0.08"	-0.16"	-0.04"	-0.08"	-0.16"
Rear wheel						
SAI	-	-	-	-	-	-
SA	-	-	-	-	-	-
Toe in	-3.50"	-5.50"	-7.50"	-3.50"	-5.50"	-7.50"
Toe	-0.04"	-0.08"	-0.16"	-0.04"	-0.08"	-0.16"
Max steering angle	34.00°	36.00°	38.00°	34.00°	36.00°	38.00°
Outside	28.50°	30.50°	32.50°	28.50°	30.50°	32.50°

Standard Data



Push Compensation



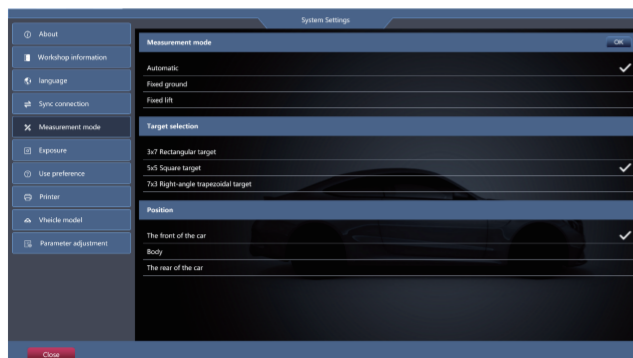
Measure Caster



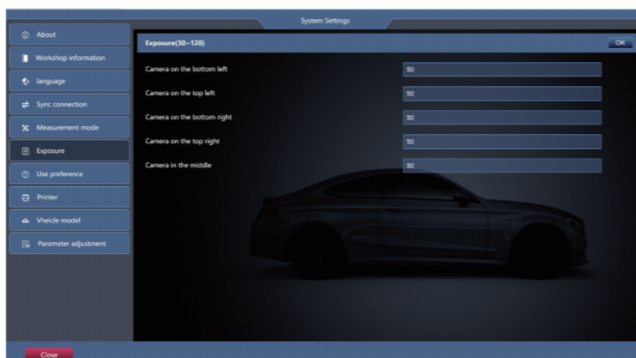
Fault Detection

Name	Brand	VIN	Fault condition
Model	Brand	VIN	2000 - 2001
Name	Brand	VIN	Deviation
Tel	Required	License	Steering Wheel Shimmy
Address	Service Writer	Last Service	Tire wear
Previous Mileage	Inspection Date	2003-1-0	Steering Wheel deviation
Current Mileage			Bumping
Maintenance date			
Remark			
Name	Before adjustme	Range	After adjustme
Front Left Camber	0.00°	-1.0°-0.0°	0.00°
Front Left Toe	0.00°	-0.5-0.5	0.00°
Left IA	0.00°	-	0.00°
Left CA	0.00°	-	0.00°
Rear Left Camber	0.00°	-0.5-0.5	0.00°
Rear Left Toe	0.00°	-0.5-0.5	0.00°
Steering wheel	0	0	0
Thrust line	0.0	0	0

Save Record



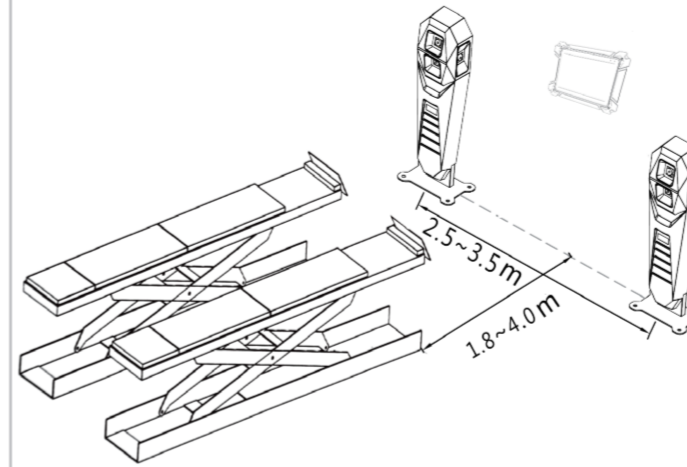
Humanized Settings



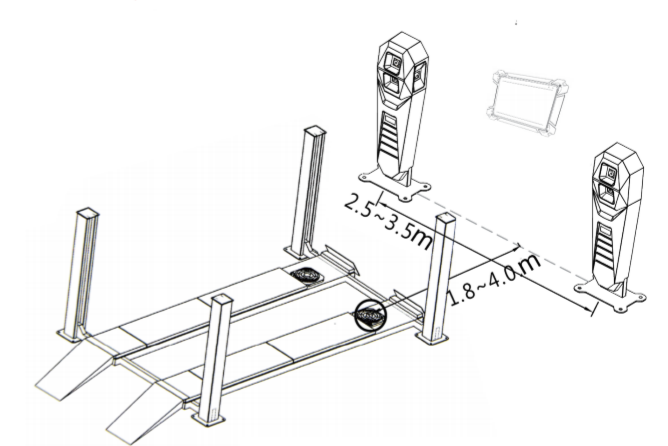
Exposure Adjustment

Installation Methods

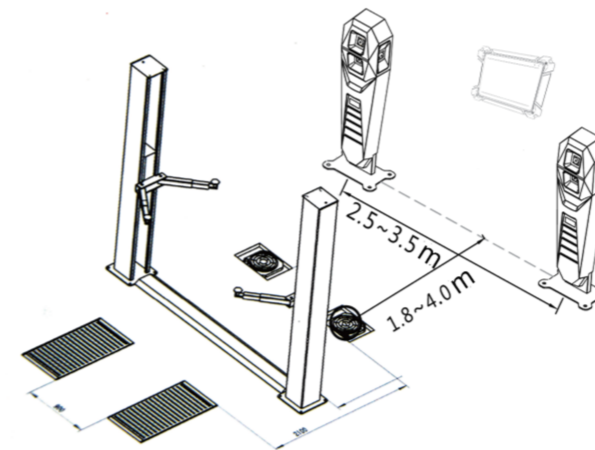
Large scissors installation method



Four columns installation method



Two columns installation method



Pass-through installation method

