

WAA939

Automatic ADAS Calibration System with Alignment



Scan for more information

WAA939 Intelligent Driving Calibration System is an automated device that integrates four-wheel alignment and ADAS calibration functions.



ADAS automatic parallel and centering



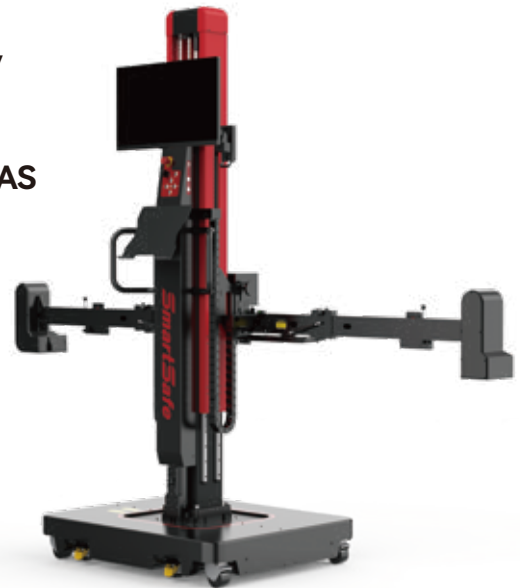
Target automatically finding and tracking



Dual-screen operation, two-way control



Compatible with ADAS series targets



Features

1. Automatic ADAS calibration: 4 high-resolution cameras and 4 high-precision motors can be used to complete ADAS alignment and parallelization;
2. Target tracking and finding: Supports automatic tracking and finding of targets by the camera;
3. Real-time self-calibration: Real-time self-calibration between camera modules to adapt to automated movements;
4. Dual-screen streaming synchronization, two-way control: supports 24-inch high-definition display and 13.3-inch diagnostic tablet streaming synchronization, and two-way control, making operation more convenient;
5. High-precision motion control: Equipped with 4 axial high-precision stepper motors to meet the automation of forward, backward, left, right, rotation and lifting movements;
6. Accurate measurement of beam angle: equipped with two high-precision sensors to determine the pitch angle and roll angle of the beam, making calibration more accurate;
7. Ground level compensation: Calculate the vehicle's level performance through four camera modules, and adjust the pitch and roll knobs to meet ADAS calibration requirements;
8. Target distance measurement recognition: No need for manual measurement, just place the distance measurement target to quickly complete the distance measurement;
9. More friendly ADAS calibration guidance: process-based calibration guidance, more friendly to novices, with guided interactive experience.

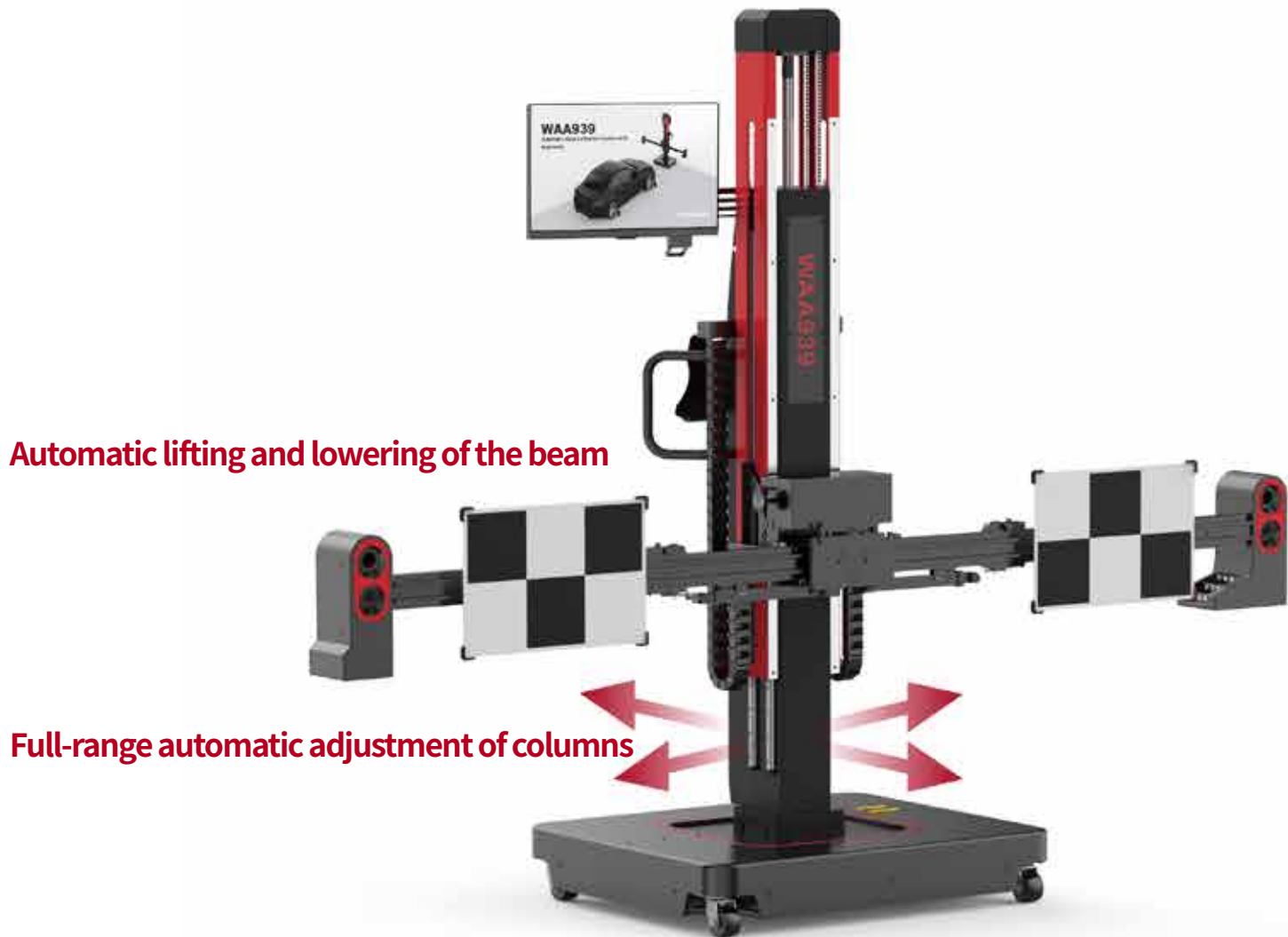
Functions

1. **ADAS automatic centering and paralleling:** Simply push the main frame to the approximate position to activate the automatic centering and paralleling function, meeting the automatic centering and paralleling standards of different vehicles.
2. **Automatic target lift:** Based on the target's centering and parallel height requirements, the target is automatically raised to the desired calibration position.
3. **Target finding and tracking:** The beam will automatically rise and fall according to the changes in vehicle height to track the target and ensure that the target is within the camera's field of view.
4. **Four-wheel alignment measurement:** Supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheelbase, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
5. **Vehicle type database:** Covers the four-wheel alignment data of more than 50,000 models worldwide and supports user customization.
6. **Terminal wireless connection:** Measurement data is transmitted wirelessly, and the four-wheel alignment process is displayed when paired with the ST13 intelligent connection terminal.
7. **Test report:** Generate ADAS calibration and four-wheel alignment reports, support pre-calibration and post-calibration data comparison, and support report sharing.

Parameters

Rated power	260W	Main frame left and right motion range	$\pm 90\text{mm}$
Power supply	100~264V, 50/60Hz	Main frame rotation range	$\pm 3^\circ$
Recommended working distance(wheel alignment)	1.8~2.2m	Hub diameter (four-point hub clamp)	275~640mm
Main frame folded dimensions (length×width×height)	1500×900×1920mm	Tire diameter (three-point tire clamp)	470~1100mm
Beam expanded/folded dimensions	2780 / 1500mm	Operating temperature	-10~50°C
Main frame height range	335~2175mm	Storage temperature	-20~60°C
Main frame front and rear motion range	$\pm 120\text{mm}$		

WAA939: ADAS Calibration & Wheel Alignment Measurement, Two Functions in One Equipment.



Integrated wheel alignment measurement and ADAS calibration functions

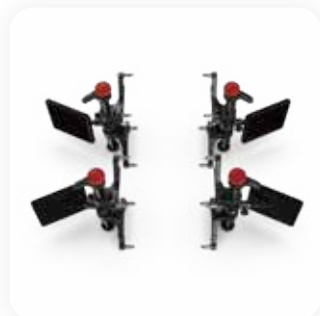


Full-range multi-axis movement, fully automatic centering and parallel alignment



Automatic crossbeam lifting and lowering to adjust target position

Accessories



Four-point wheel hub clamp kit



ST13



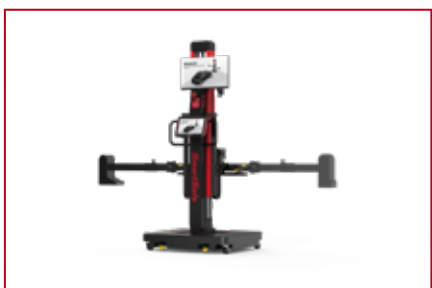
Distance Measurement Target



Brake Lock Device
Steering Wheel Lock



Fully intelligent automatic operation
with minimal manual intervention



Dual LED screen + tablet display
for convenient operation



Compatible with ADAS series targets
and WA613 series wheel clamps