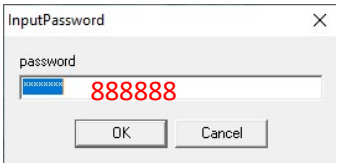
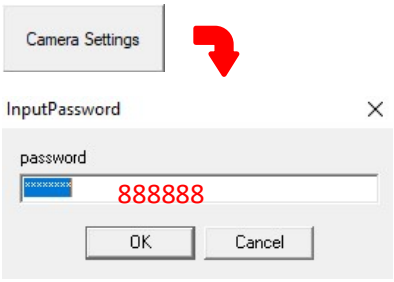
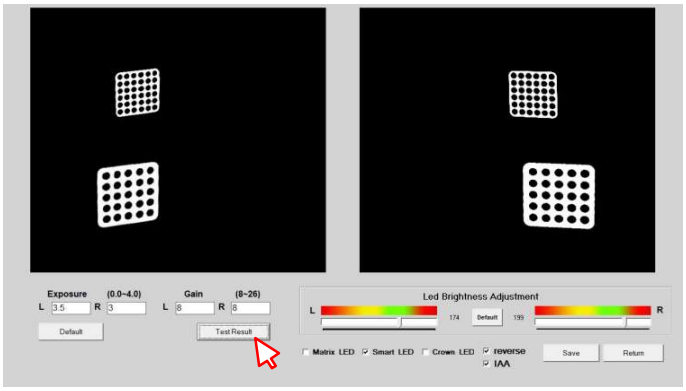
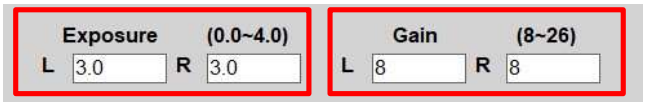
## Preparations before calibration

1. Drive a vehicle onto the lift, park it at the furthest point on the lift, and install four clamps and targets. Wipe the target repeatedly with industrial alcohol to ensure it is free of oil stains. Set the exposure or gain value to ensure the target of rear wheel is clearly visible.



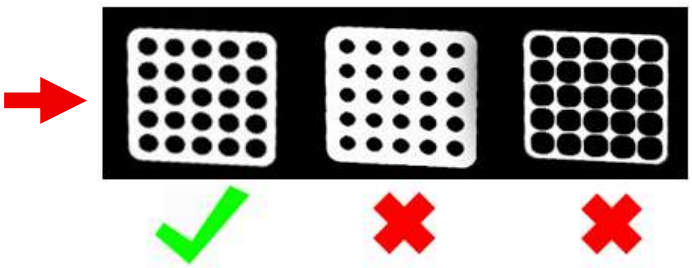



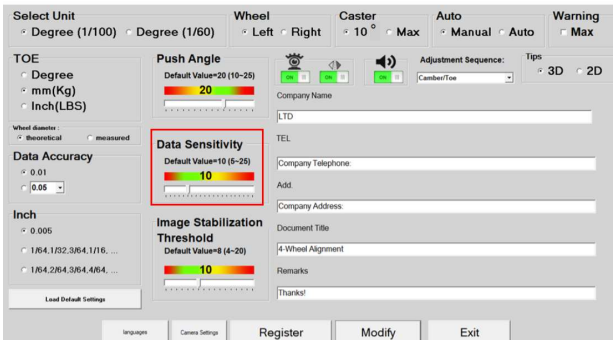



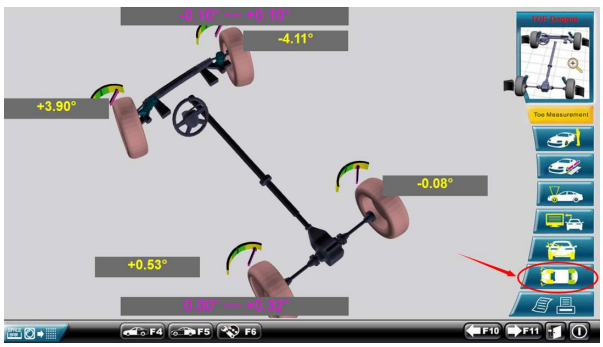

[Exposure] Camera exposure setting, usually set between 1.0 and 4.0. It is not recommended to be bigger than 4.0. If the target pattern is still not clear enough, you can adjust the [Gain]

[Gain] It is recommended to set between 8 and 20.



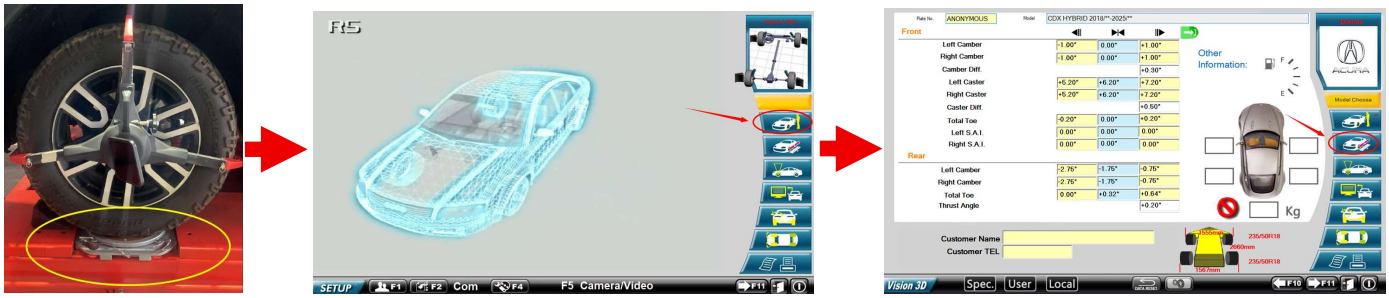
2. Set the stability value to 10 (the default value is also 10). Enter the toe measurement interface and observe whether the Toe fluctuates significantly. If the fluctuation is large, it indicates that the voltage is unstable. Please resolve the voltage issue first; otherwise, the subsequent work will be useless.

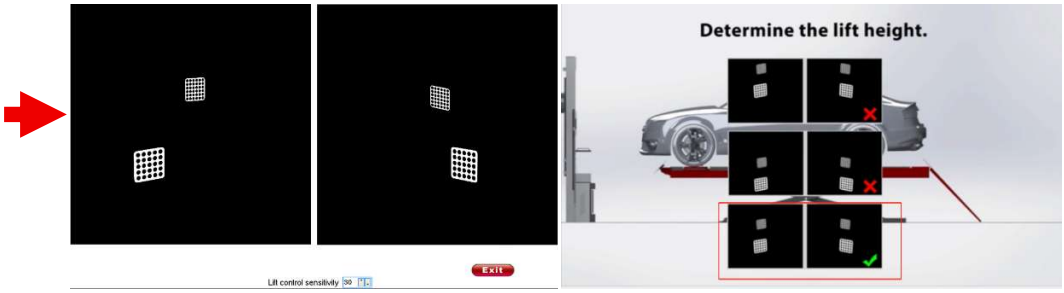


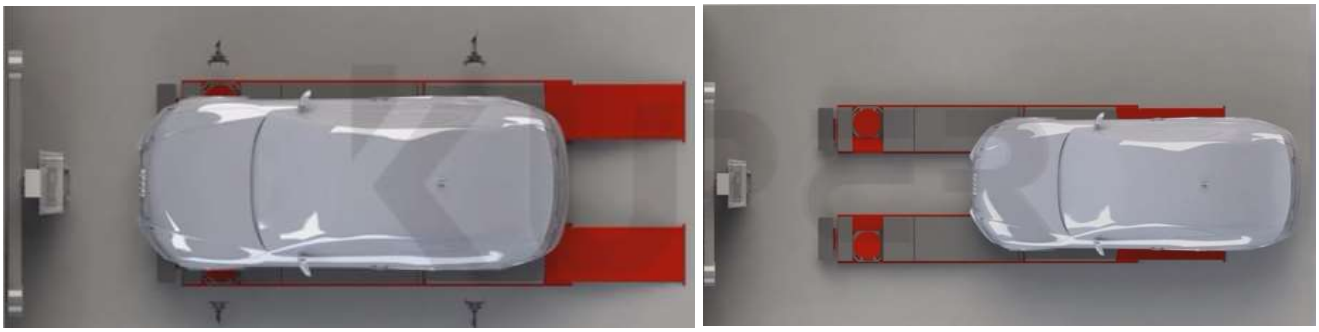

3. Remove the clamps and targets, push the vehicle to the front wheel turntable position, and reinstall the clamps and targets. Use the wheel alignment software to automatically adjust the camera beam height. Ensure the target image on the screen is centered, and then mark the height at which the lift and camera beam are positioned. Ensure that the

beam and lift are also calibrated at this height during calibration. This is important to simulate the vehicle's actual measurement conditions.

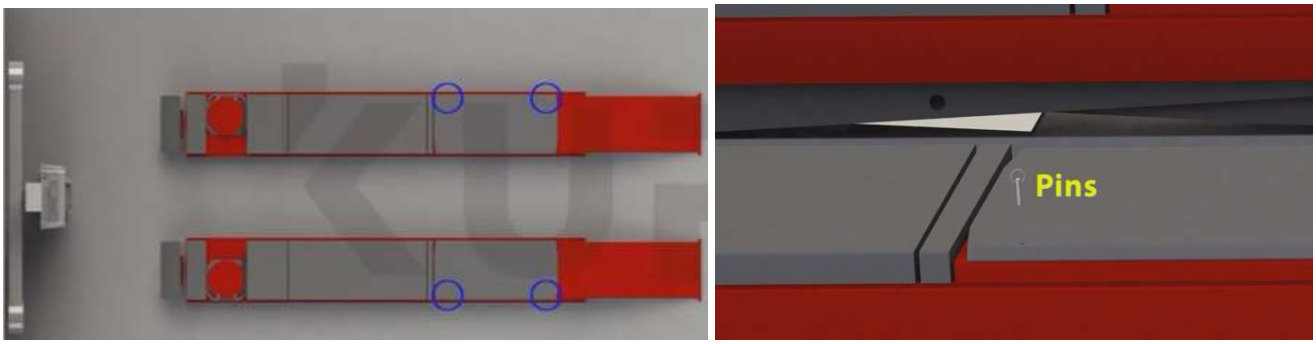


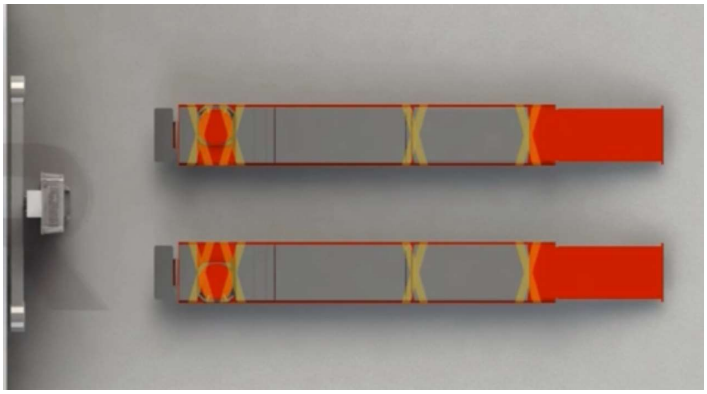

4. Exit the wheel alignment software at first, then lower the lift, remove the targets and clamps, drive the car off the lift, and raise the lift to the height marked in step 3.



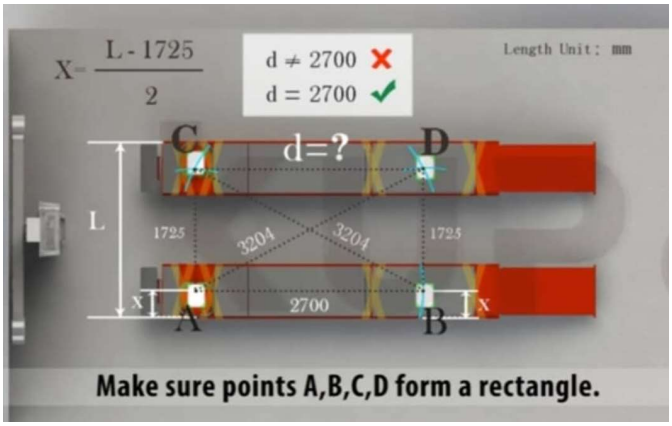
5. Insert the slide plates pins.



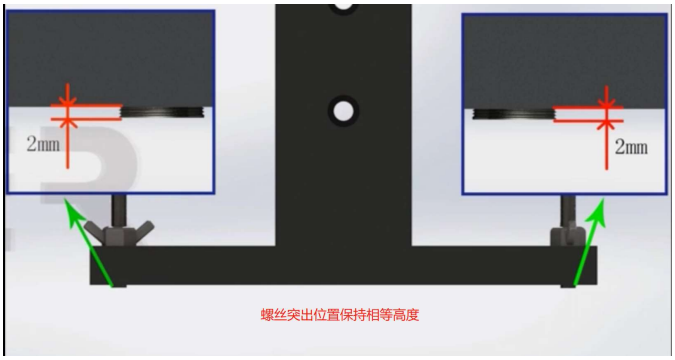
6. Secure the car lift's turntable and rear wheel slide plate with tape to prevent them from moving. If it's a four-post lift, be sure to block the gaps between the four posts and the track to prevent the track from moving. (same as picture)



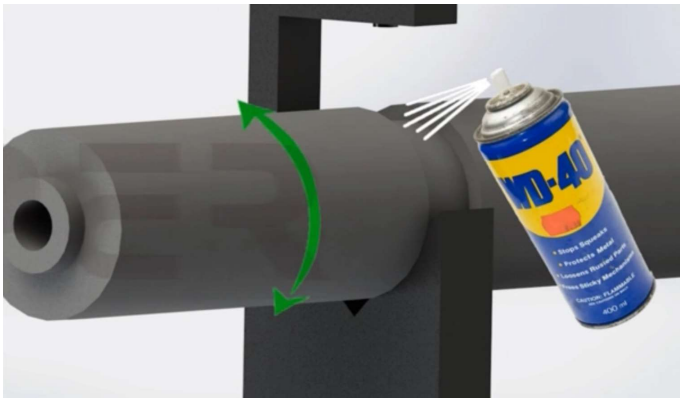
7. Please use A4 paper to draw points A, B, C, and D. To minimize movement, do not mark them on the turntable; instead, mark them slightly behind the turntable (draw point A).




8. The calibration kit has two legs, one of which has two screws. Both screws should be pushed out to the same height, as shown in the enlarged image below: Tighten each screw until it just touches the ground, then stop and mark on the screw. Tighten each screw two turns (keeping an eye on the mark, neither too much nor too little) to ensure that the two screws are pushed out to the same height.

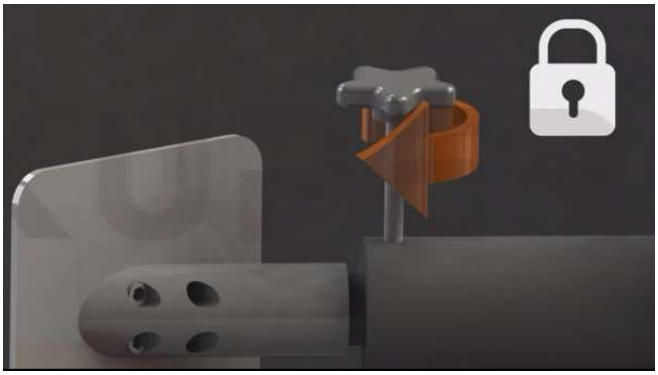


9. Grease or lubricant must be applied to the rotating part of the calibration lever to ensure smooth rotation. During calibration, no one should touch the lift or crossbeam to minimize vibration.



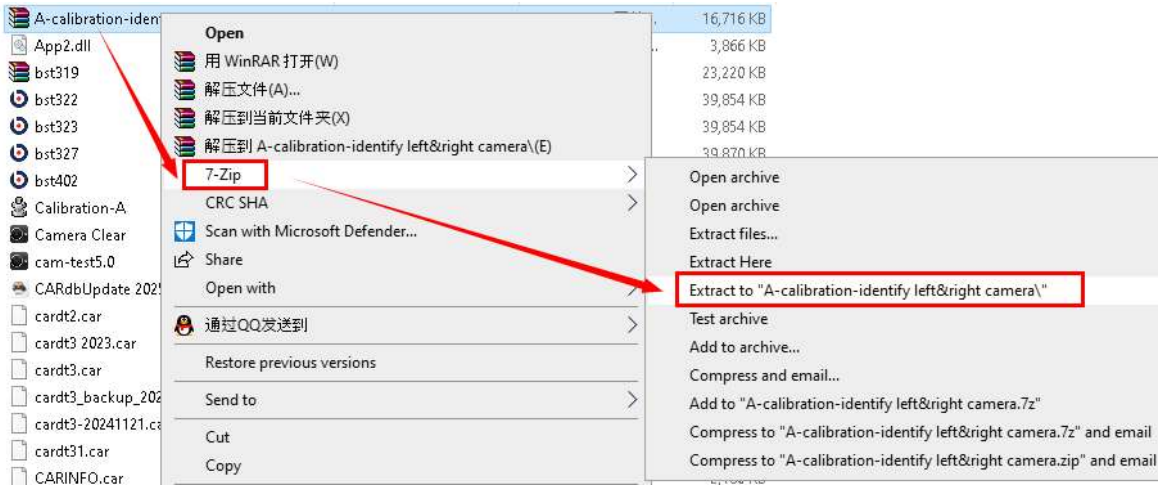

10. Install the front targets, ensure targets are installed vertically.

11. Lock the left and right targets,

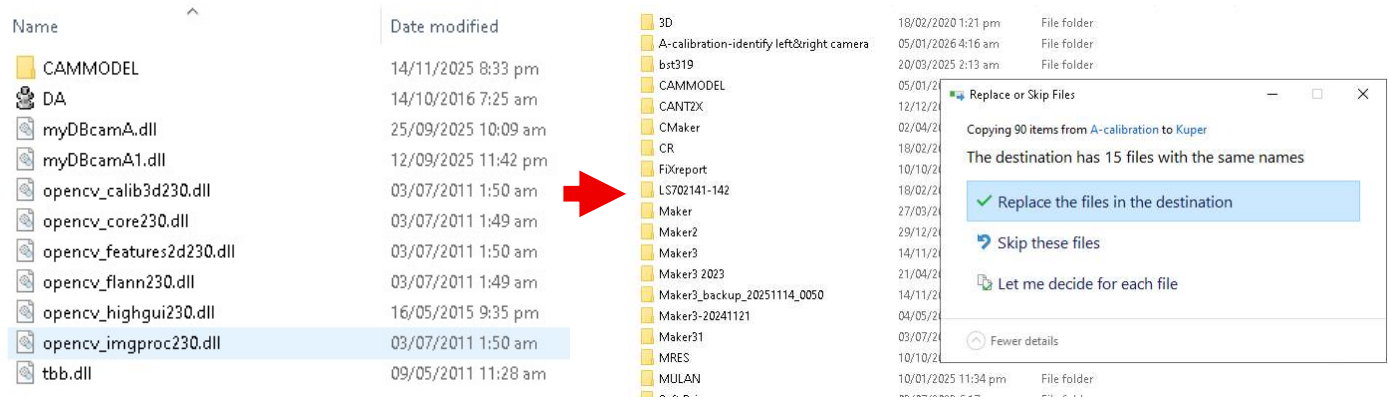


## Start calibration

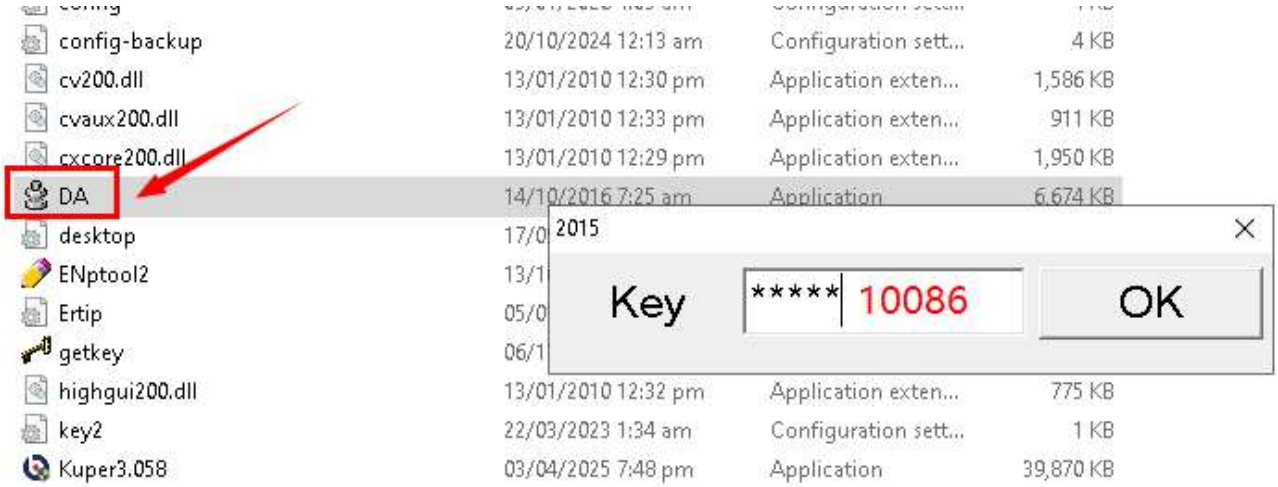
1.Copy A-calibration-identify left&right camera to wheel alignment software folder, then zip the folder.



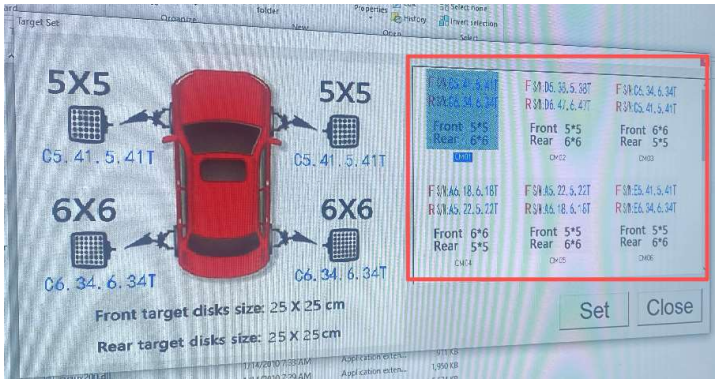

2. Copy all files from the "A-calibration-identify left & right camera" folder to the wheel alignment's software folder and replace the old files.




3.Run the DA program and input password 10086.



4. According to the ID No. on the back of the target, select the corresponding targets category.




5.Click the "Setup" button， then click the "Start" button, keep the calibration axis stationary, wait for the beep sound, and get the first position data.

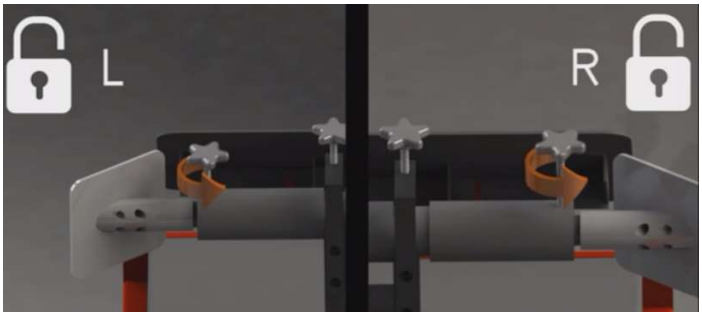
6. Rotate the calibration axis backward around 20 degrees smoothly.

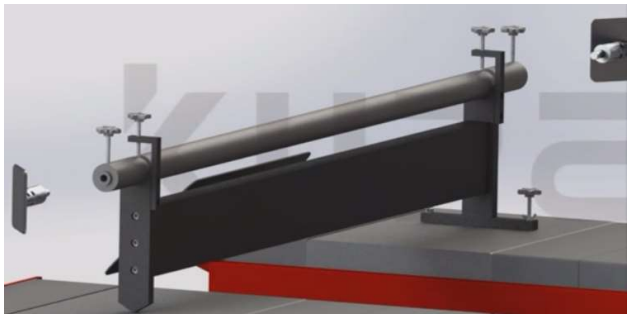
7. Wait for the beep sound to get the second position data.

8. Rotate the calibration axis forward around 20 degrees smoothly.

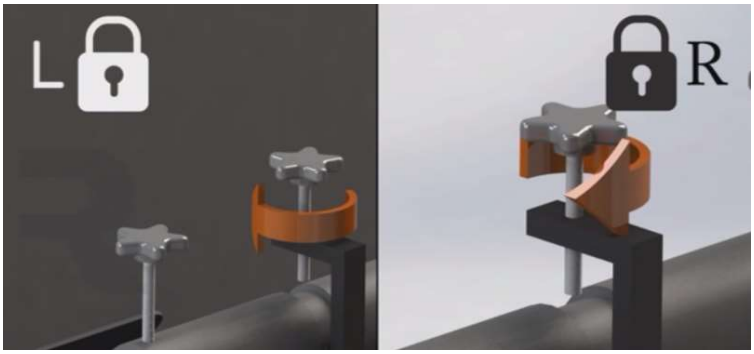
9. Wait for the beep sound to get the third position data.

10. Dismount the front targets.

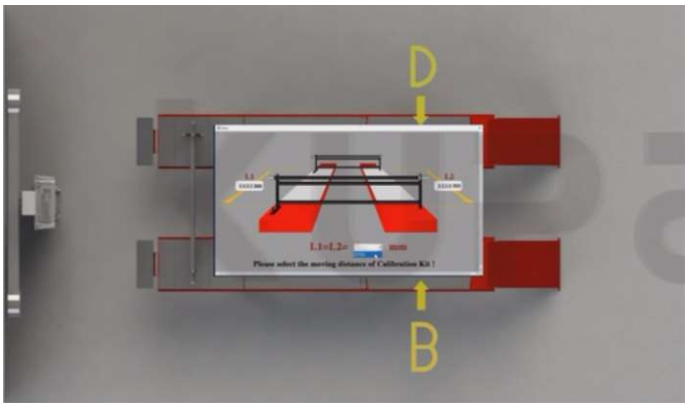


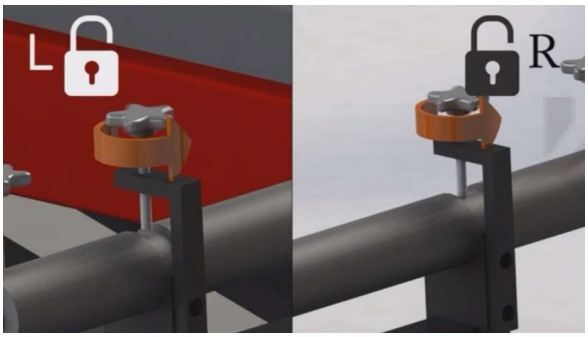
11. Fix the calibration axis in case fall down during carrying.



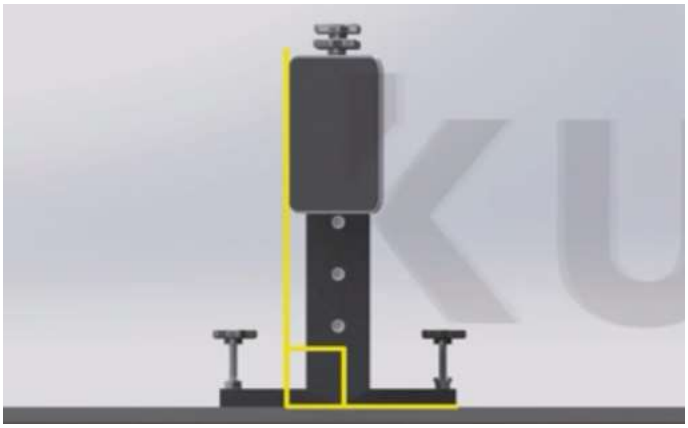
12.Choose LR=L2=2700mm,then place calibration stands to point B D.



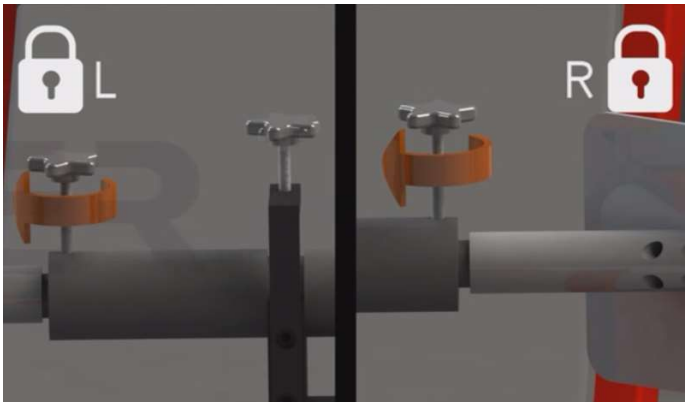

13.Loose the screw, and install rear targets.



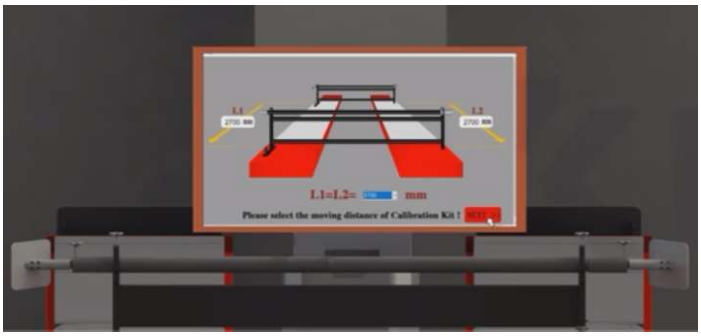
14. Ensure targets are installed vertically.



15.Lock the screws.



16. Choose 2700 and click 'NEXT’.

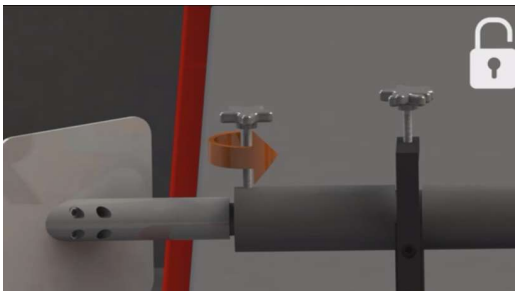



17. Click the "NEXT" button, keep the calibration axis stationary wait for the beep sound, and get the fourth position data.

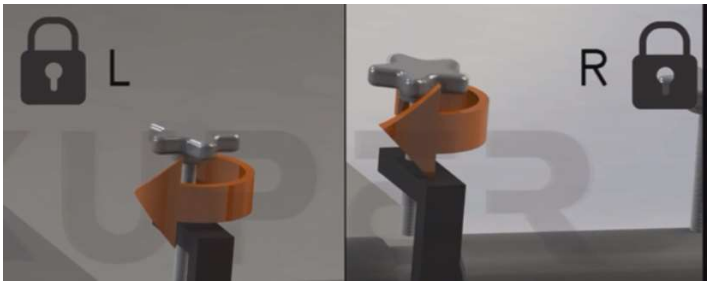
18. Rotate the calibration axis backward around 20 degrees smoothly. Wait for the beep sound to get the fifth position data.

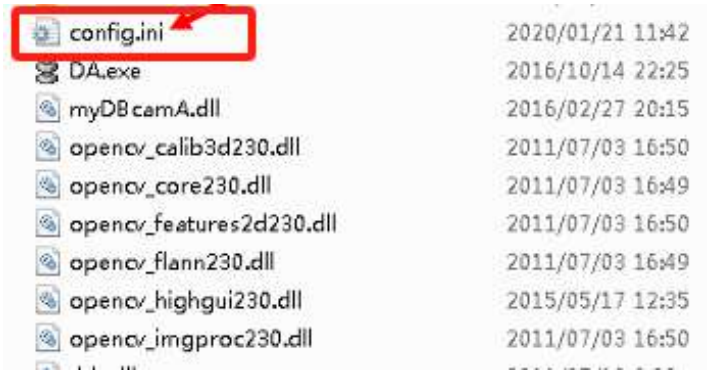
19. Rotate the calibration axis forward around 20 degrees smoothly. Wait for the beep sound to get the sixth position data.

20.Loose both sides of screws, and remove the targets.



21. Fix calibration axis,then remove the calibration bar.




22. Copy the config and send it to supplier to calculate and get the result.