

# WheelCam

Digital Racing Alignment

Accuracy and speed



A revolutionary innovation  
adapted for the racing world!

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## Why use camera technology?

Digital cameras offer fundamental advantages compared to other existing wheel alignment systems. Cameras are highly capable as they can measure several angles with every picture!

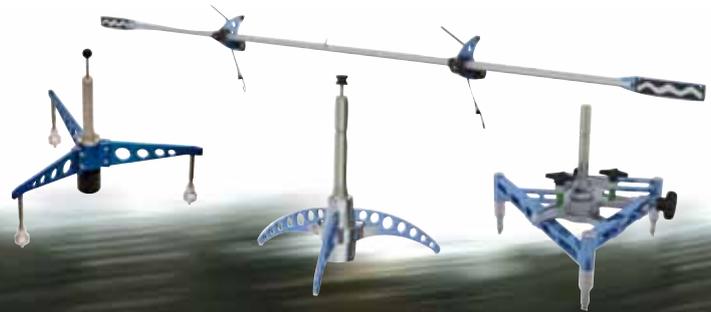
TruckCam cameras are built for the harsh environment of workshops. They are small and compact with no internal moving parts. The cameras work regardless of light conditions as they operate only with infrared light from a built-in flasher. The precision and accuracy is excellent even at long distances.

## Compact and mobile

Because of its unique design, the complete system is very compact and easily brought to the track or stored in the workshop. All made for full functionality and total control in all environments and different locations.

## Purpose built hardware

All hardware is specifically developed for racecars, and wheel adapters can of course be adapted as needed. The target bars are quickly and easily mounted to the front and rear of every car.



*"The accuracy exceeds everything previously seen, we adjust by 1/10 of a millimetre with 100% repeatability, when taking of and remounting the equipment. "*

Engineer Magnus Karlsson, Mtech (Xlander Racing and Robin Rudholm, Swedish Porsche Carrera Cup Champion of 2011)

### Measuring and adjusting toe

The WheelCam system enables measurement of toe angles on all four wheels in one process, and simultaneous adjustment of two of the four wheels.

### Measuring and adjusting camber

Mount the wheel adapter and camera sensor on the wheel and let the camera take a picture. The camber value for the wheel will show up on the computer screen, ready for adjustment if necessary.

### Measuring and adjusting Castor and KPI

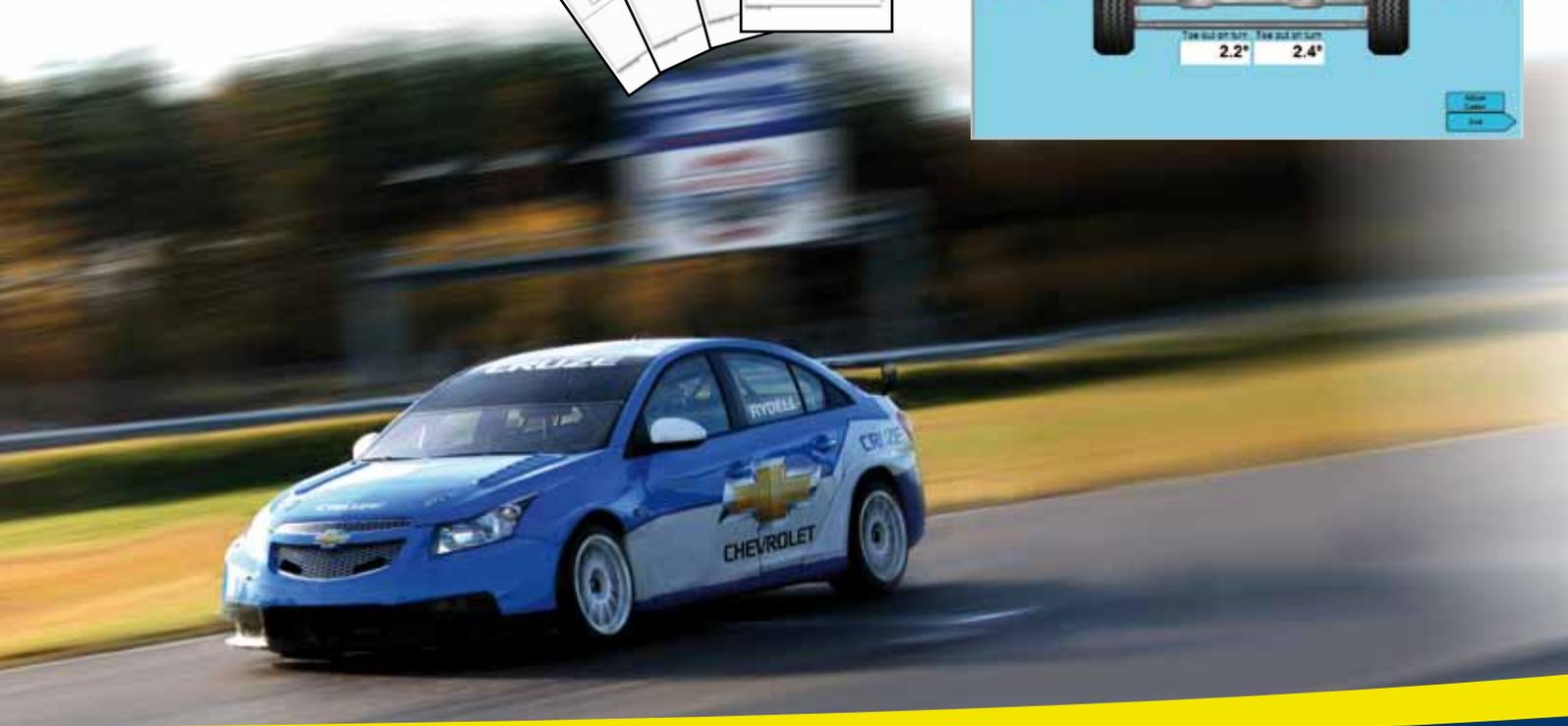
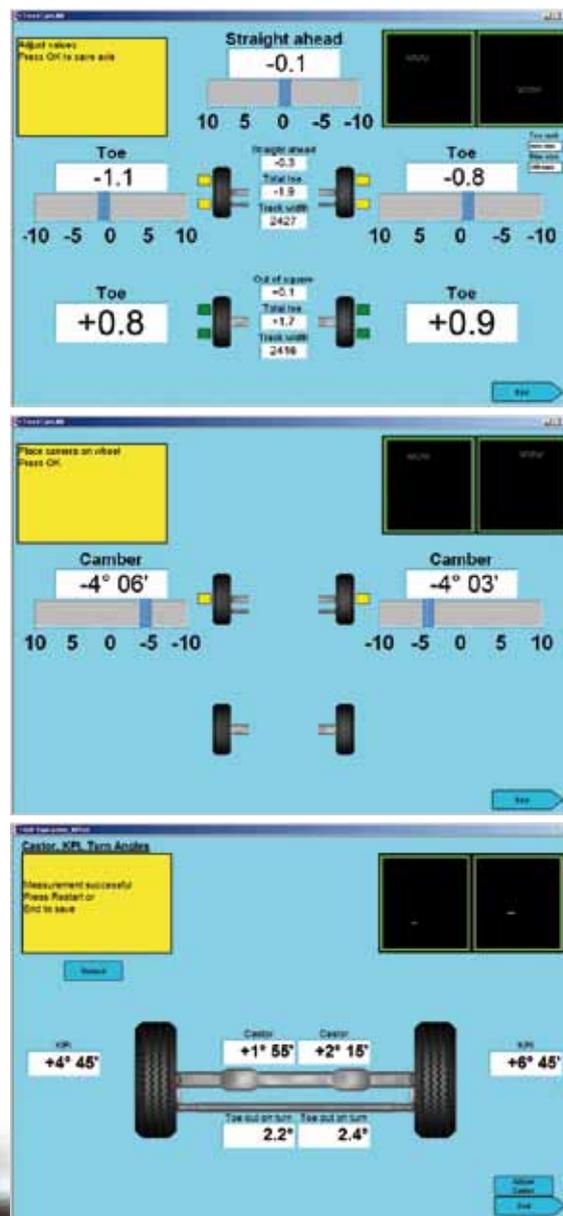
By using the cameras built-in inclinometers and gyroscope a very accurate value for Castor, KPI and Toe out on turn is calculated. This process is done very quickly by turning the wheels to left and to the right.

### Live values

Live values will be shown on the computer screen all the time through the adjustment process, to assist the mechanic in the best possible way.

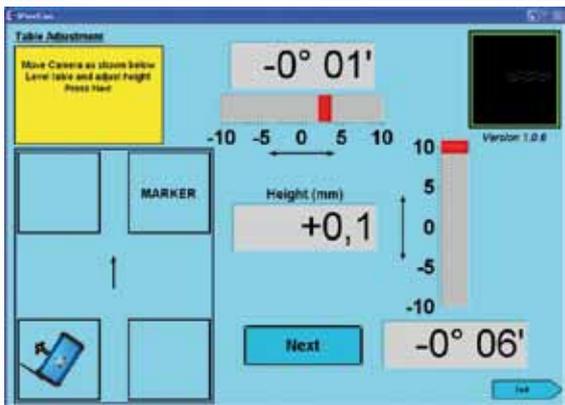
### Measurement reports and saving of data

After every measurement there is a possibility to print out a report sheet and/or save the measurement on the computer.



*“WheelCam makes a large contribution in reducing setup time. With the mechanic making the adjustment and reading the display simultaneously, many tiring setup iterations are avoided and setup is now a fast and efficient process.”*

Engineer Jonas Jarlmark (Rickard Rydell and Chevrolet Motorsport Sweden, Scandinavian Touring Car Champion 2011)



### For race and universal use

WheelCam is designed for both quick use in the pits and for universal use for all types of cars in the workshop.

A custom made pre calibrated racing magnetic wheel adapter is made for each specific wheel type. The three legs are calibrated to ensure that the camera axle is in line with the wheel bearing.

For universal use the Spider wheel adapter is used for all wheels 13-24". The camera axle is adjusted with camera/computer support to set the axle in line with the bearing by doing a run-out compensation.

### Digital alignment of setup tables

The WheelCam system has an integrated function for alignment of setup tables, using the camera sensors and wheel adapters together with a small target.

The completely computerized table alignment ensures quick and accurate table setup to be performed by only one operator in a matter of minutes.



WheelCam Racing Alignment - the racing division of:

### TruckCam AB

Högmossevägen 3  
SE-641 39 Katrineholm Sweden  
Tel: +46 (0) 150 66 25 40  
Fax: +46 (0) 150 66 25 41  
E-mail: info@truckcam.com

