TechnoVector 7

Machine Vision Wheel Alignment Systems





TechnoVector 7 – Machine vision wheel alignment systems

Techno Vector Group

TechnoVector wheel aligner has four or two Widescope high-resolution cameras in two separate posts or a single beam.

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TechnoVector wheel adaptors support rim sizes from 12" up to 24"

Unique WideScope technology

- Perform measurement at a wide range
- of lift heights* without repositioning cameras. • A more compact installation without any loss
- of accuracy
- Significantly decreases the time it takes to perform an alignment
- * depends on the installation distance

(See pages 6-7 for more details)



The ultimate innovation in wheel alignment



Machine vision wheel alignment systems





Easy-to-use and lightweight and compact wheel adaptors and targets

TechnoVector wheel alignment systems use cameras to observe targets determining wheel's precise position in 3D space

Perform compensation for all 4 wheels simultaneously by rolling the vehicle



Machine Vision System

Techno Vector 7

High-definition cameras capture targets and transfer image data to the TechnoVector software

The software calculates highly precis positions of targets in 3D-space

Cameras

The use of machine vision technologies allows high-precision readings

Firmware promotes a real time display

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Four-camera wheel aligner's kit

Targets

Retroreflecting targets without any electronic components with a protective layer coating

Optima series

- · Easy to use
- Light and compact targets
- Rubber frame to protect from accidents

PRO series Premium series

Easy to use

$\times > 1$...

- Super-light magnesium alloy targets
- Plastic frame to protect
 from accidents
- Support magnetic and 3-point wheel adaptors



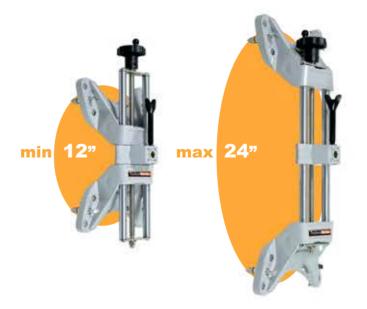


Two-camera wheel aligner's kit



Wheel Adaptors

Self-centering wheel adaptors with the adjustable central mechanism support 12" to 24" wheel rims and are compatible with light duty and middle duty vehicles



Optional equipment



Set of magnetic wheel adaptors



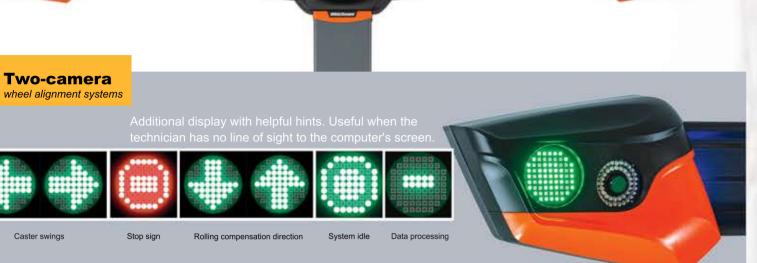
Machine vision wheel alignment systems





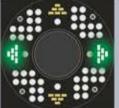


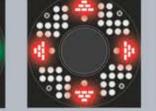
Camera field of view diagrams with WideScope technology Four-camera wheel alignment systems



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Four-camera wheel alignment systems





Caster swings

Stop sign



Rolling compensation direction

Wide-angle machine vision system

Key advantages of the WideScope technology

- Measure and adjust at any lift height *
- · Accommodate to the workplace. Install closer or further away, depending on the space available
- Continue adjustment even if the target's is partially occluded

*depends on the installation distance (see page 7)

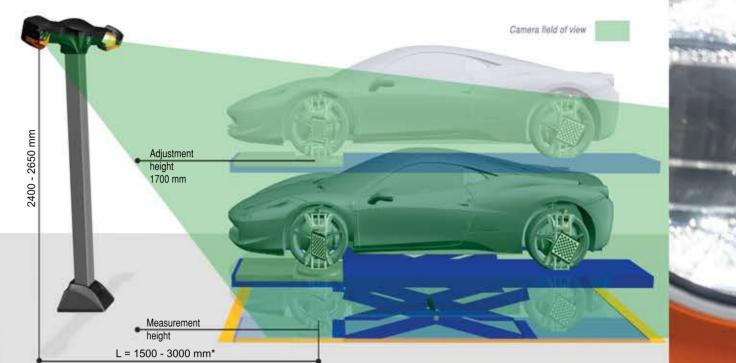
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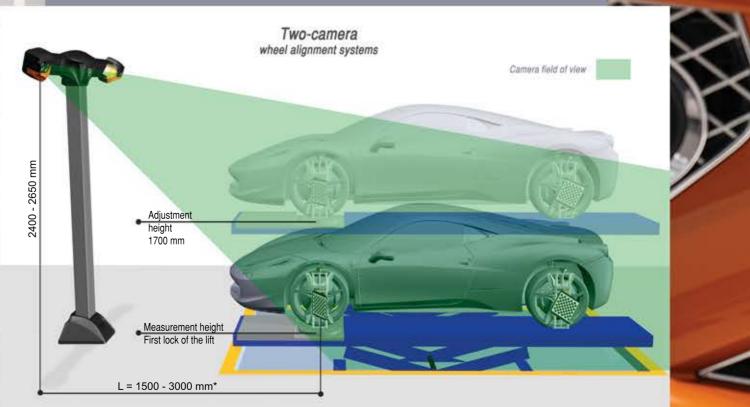
Lift position tracking

This feature can be useful if the lift can't stay level at different heights.

The software automatically detects lift movement and compensates the difference.



* Visibility of targets at the lift floor level may be reached at the distance starting from 2200 mm



* For the first stop of the lift targets fit into the field of view at approximately 2600 mm

Machine vision wheel alignment systems





Machine vision wheel alignment systems

	TechnoVector 7		
	Measurement Range	Maximum Error	Average Error
Front ax	le		
	±8°	±3'	±2'
	±5°	±3'	±2'
	±19°	±8'	±5'
	±19°	±8′	±5'
	±45°	±10'	±5'
Rear ax	le		
	±8°	±3'	±2'
	±5°	±3'	±2'
	±2,5°	±3'	±2'
ry angle	es		
	±2,5°	±3'	±2'
	±2,5°	±3′	±2'
	±2,5°	±3'	±2'
	±2,5°	±3'	±2'



TechnoVector Software

TechnoVector

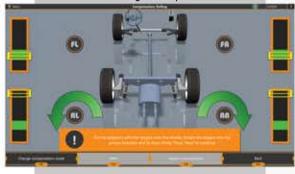
The **TechnoVector software** is a powerful and modern application with all the tools necessary for fast and easy wheel alignment



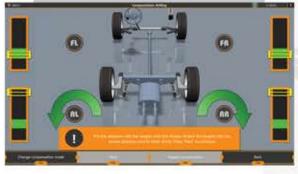


Target Setup

Database Image View



Rolling Compensation Mode





includes data for more than 60000 vehicle model:

- wheel alignment specifications - tire pressure specifications
- 3D animation
- adjustment diagrams and images



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The TechnoVector software supports ASA Network (a car workshop IT framework). ASA Network supports centralised order creation and data sharing across all the devices in the workshop network.



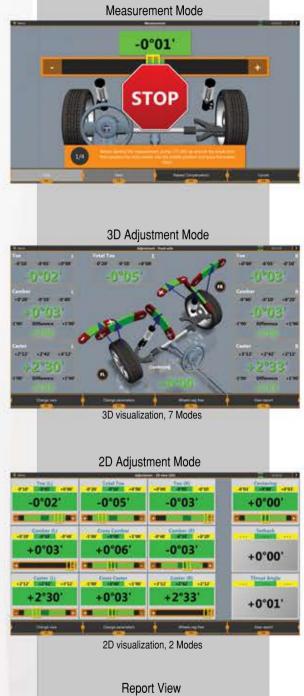
Free database updates on the TechnoVector website! Send reports to your customers via TechnoVector mobile app, e-mail or text messaging to reduce the paperwork and improve customer service



Machine vision wheel alignment systems



The TechnoVector software runs on a PC and uses the Windows 10 operating system







Configurations

Pick a configuration that fits best to your workshop needs



Machine vision wheel alignment systems

Up-to-date wheel aligners for modern car shops



Mobile App



TechnoVector Report Viewer

- Customers can use this smartphone app to gain access to the wheel alignment reports of their cars. Works on Android and iOS.
- The TechnoVector software can send the report data to the app at any time you need. The customer is identified by an e-mail address or a phone number. The wheel aligner must have an internet connection.
- If the internet connection is unavailable customers can obtain an alignment report using a QR code on the screen or in the printout.
- Reports can be viewed in the mobile app and exported as an HTML or PDF file.

Online reports

To Service 1

A full adjustment report can be viewed on a mobile device in the browser even without installing the TechnoVector assistant by scanning a **QR-code** on the screen or in the print-out. Internet connection is not required.



TechnoVector Assistant

- Take photos and perform license plate recognition, automatically filling the order data (if such data available)*.
- Take photos and attach them to the current order.
- View current wheel alignment data to the mobile device's screen. Pick one of the several modes to best fit your workflow.
- Control the wheel aligner. TechnoVector Assistant app can be used as a remote control.

* - requires an AutoFill package



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- Additional camera
- Provides drive-in assistance
- Provides license plate recognition
- Provides vehicle presence tracking
- Allows to attach photos to the order





Order AutoCompletion packages

AutoFill package* features:

- License plate recognition
- If the vehicle is present in the customer's local database (returning customer), the vehicle model and the customer information is filled automatically

* - internet connection is required

Machine vision wheel alignment systems



The TechnoVector software can send a report link to the customer via e-mail or text messaging

A print-out or a report on the tablet's screen is useful when explaining details about the alignment procedure to the customer

AutoFill Plus package* features:

- · License plate recognition'
- If the vehicle is present in the customer's local database (returning customer), the vehicle model and the customer information is filled automatically
- Uses TechnoVector online services** to determine the vehicle's make model and other information about the vehicle based on its license plate number***

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- * internet connection is required
- ** per-country availability can be checked on technovector.com
- *** information details vary depending on the country

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Precision in Motion



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