

TechnoVector 7 –

Machine vision wheel alignment systems



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)



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

The ultimate innovation in wheel alignment



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

Perform compensation for all 4 wheels



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

Cameras

The use of machine vision technologies

Firmware promotes a real time display

Targets

Retroreflecting targets without any electronic components with a protective layer coating

Optima series

- Easy to use
- from accidents

Light and compact targets Rubber frame to protect

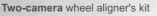
PRO series Premium series

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

allows high-precision readings



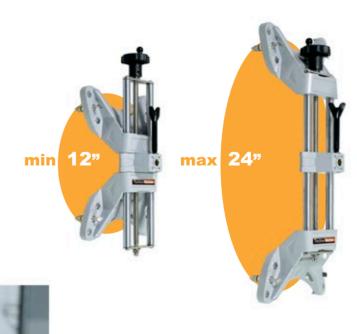






Wheel Adaptors

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







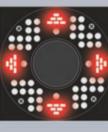




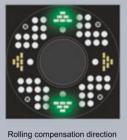


Four-camera wheel alignment systems











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

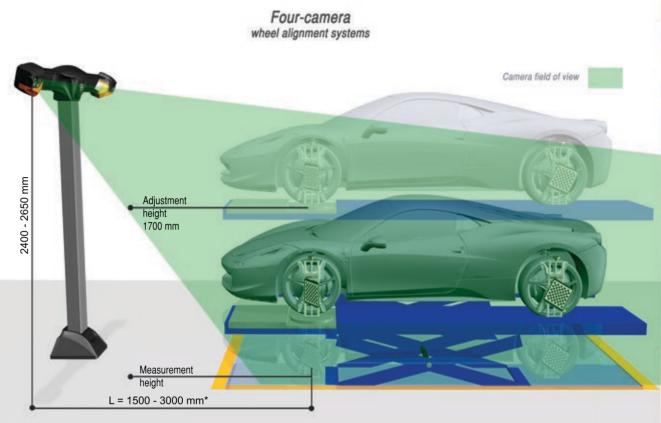


Lift position tracking

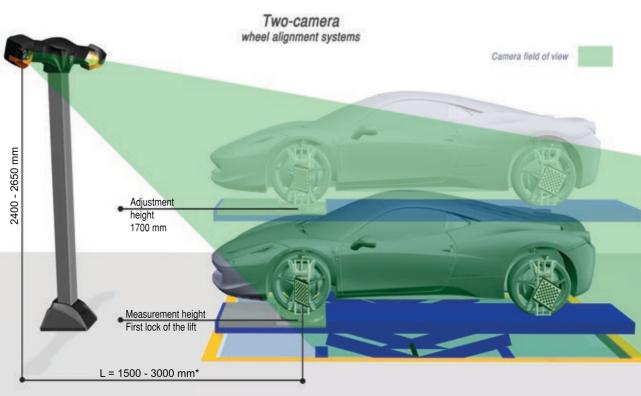
This feature can be useful if the lift can't stay level at different heights.

The software automatically detects lift movement and compensates the difference.

Camera field of view diagrams with WideScope technology



* 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

^{*}depends on the installation distance (see page 7)



Computer Cabinets

P series



V series



T series



S series

Computer cabinet includes

- PC with an Intel/AMD processor and a Windows 10 operating system
- · 21.5"+ widescreen monitor
- · VESA bracket for the monitor
- Printer

RAL 7011

- Remote control (2.4Ghz connection)
- · Four brackets to store wheel adaptors

RAL 5010



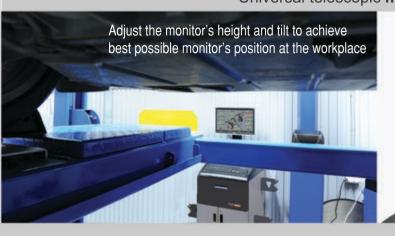




Available colours

RAL 3002

Universal telescopic **monitor bracket** (for V- series and T- series)





Specifications



	TechnoVector 7		
Parameter	Measurement Range	Maximum Error	Average Error
	Front axle		
Camber	±8°	±3'	±2'
Front Total Toe	±5°	±3'	±2'
Caster	±19°	±8'	±5′
SAI / KPI	±19°	±8'	±5'
Lock Angle	±45°	±10'	±5′
	Rear axle		
Camber	±8°	±3'	±2'
Rear Total Toe	±5°	±3'	±2'
Rear Individual Toe	±2,5°	±3'	±2'
Symr	netry angles		
Front SetBack	±2,5°	±3'	±2'
Rear SetBack	±2,5°	±3'	±2'
Thrust Angle	±2,5°	±3'	±2'
Geometrical Driving Axis	±2,5°	±3'	±2'

Marking

V 7 2 0 4 T X X X 1 2 3 4 5 6 7 8 9

- 1 Computer cabinet series (P, V, T, S)
- 2 Wheel aligner's model generation (7 for TechnoVector 7 series)
- 3 The amount of axles measured simultaneously
- 4 1 mobile, 0 stationary
- 5 Total camera count
- 6 Housing type: T, H, M, K
- 7 8 9 Additional symbols for identification of different models

Delivery Set



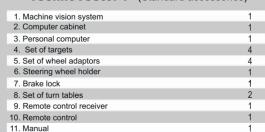


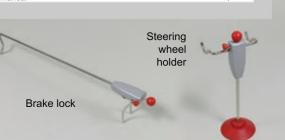
Set of turn tables





TechnoVector 7 (Standard accessories)







Set of targets & clamps



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TechnoVector 7

TechnoVector Software

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



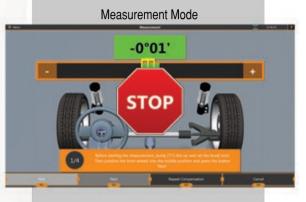
Big font and coloured

value state indication

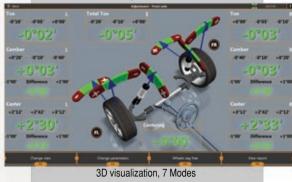
help you adjust the

vehicle from afar

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



3D Adjustment Mode

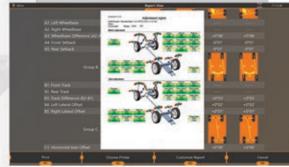


+0°00' +0°06' +0°00' +0°03' +2°33' +0°01'

2D Adjustment Mode

2D visualization, 2 Modes





TechnoVector

Database Image View

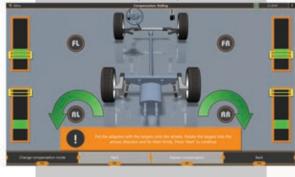


Measured values are always compared to the vehicle's specs

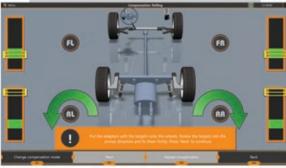


Multiple various visualization modes to pick from

Target Setup



Rolling Compensation Mode



Database

includes data for more than 60000 vehicle model:

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



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.

asanetwork



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



10 11



Configurations

Pick a configuration that fits best to your workshop needs

Up-to-date wheel aligners for modern car shops

Optima series

Light version of the Techno Vector wheel alignment system







Available colours

RAL 7011

RAL 5010



PRO series

Wheel aligners with colourful, appealing, expressive, and dynamic design







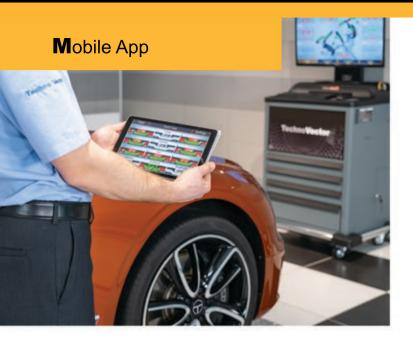


PRO Mobile series based on PRO Move the entire wheel aligner to the place you need it to be at



Initial installation of the device

The initial installation of the equipment is performed by the manufacturer's service technicians. The device works with a 4 post wheel alignment lift or a repair pit, compliance with the horizontality requirements is strongly recommended.



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.

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



Optional equipment

Additional camera

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





Online reports

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.

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

TO MERCHANIST A

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

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

