

## PROFESSIONAL 4 CAMERA 3D WHEEL ALIGNER FOR HCV

MODEL - PWL-3D60T



- SHARP 3D wheel aligners for HCV's are designed to take measurements and perform alignments on HCV's in automotive companies, car service stations, automotive manufacturing plants, and diagnostic centers.
- The operation of the wheel aligners is based on measurements of wheel axis angle parameters by video cameras and high-precision image targets.
- Wireless remote control
- Self-centering clamps fit disks up to 24" rims.
- High-precision image targets.
- Special probe target allows quick and accurate measurements of truck frame position in order to determine vehicle centre line.
- Machine vision system housings are vertical pillars equipped with precision network camera units based on high-quality matrices. Data transfer from the camera units to the PC is carried out over TCP/IP.
- Such a location of the machine vision system allows you to take into account individual peculiarities of a certain workplace and allows a passage.
- The machine vision system allows automatic recognition of targets installed on vehicle wheels and the position of the probe target and high-precision recognition of their geometrical position in space.
- The 3D program interface allows you to see position and wheel alignment angles on the screen in real-time mode.

- The user-friendly interface and advanced Help and Support System allow even novices to learn how to use the wheel aligner quickly and start working.
- There are the most up-to-date mathematical algorithms used in the software that allow for the slightest image distortions made by the optical system.
- The software includes an advanced report control system.

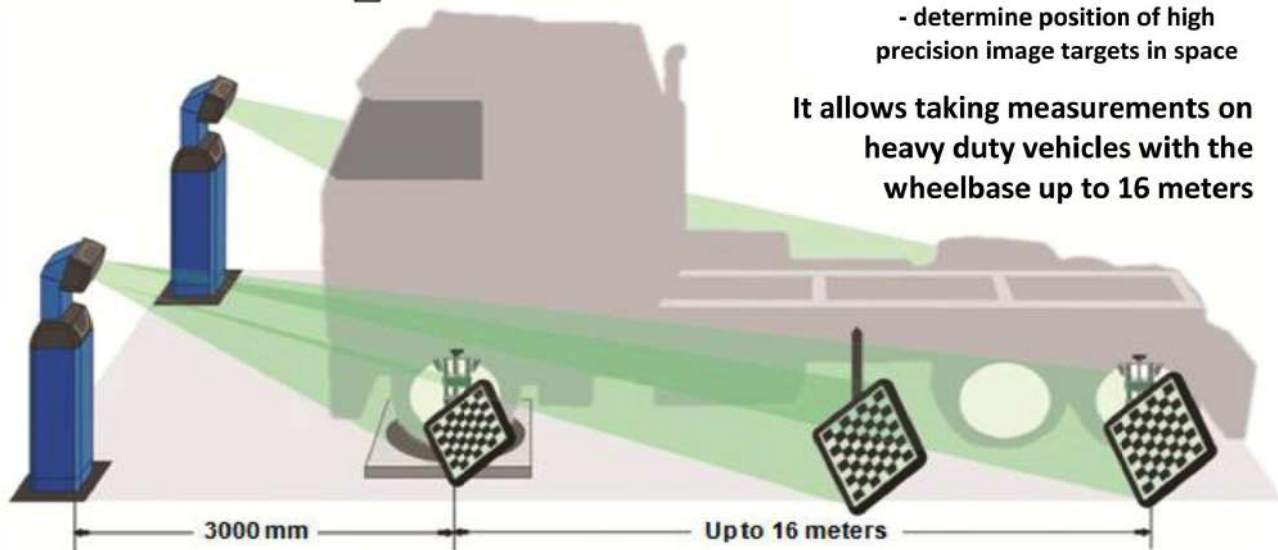
## HIGHLIGHTS



# WideScope

- 4 Digital HD video cameras
- One camera for each wheel
- determine position of high precision image targets in space

It allows taking measurements on heavy duty vehicles with the wheelbase up to 16 meters



Machine Vision System includes 4 Video cameras

Self centering wheel adaptors allow operating a wide range of wheel disks - from 12" to 24"

Special probe target allows quick and accurate measurements of truck frame position

Clamps with targets are mounted onto wheels one after another on measurable axles of a vehicle

### Technology Wide Scope

## WideScope

The most wide-angle machine system which has no analogues in the world

The key advantage of WideScope is a considerable expansion of limiting characteristics of the machine vision system

The WideScope technology decreases the measurement height



allows quick and accurate measurements of truck frame position in order to determine the vehicle centerline



**SHARP 3D Software is a powerful and modern means of checking and controlling wheel alignment**

Continuous data processing and measurement displaying

Easy operating away from the monitor with colour indicators



Automatic parameter assessment of compliance with specifications

Quick access to other program modes



**Database Image View**



**Axle Selection**



**Select Measurement Mode**



**Measurement Mode**



**3 D Adjustment Mode**



**2 D Adjustment Mode**



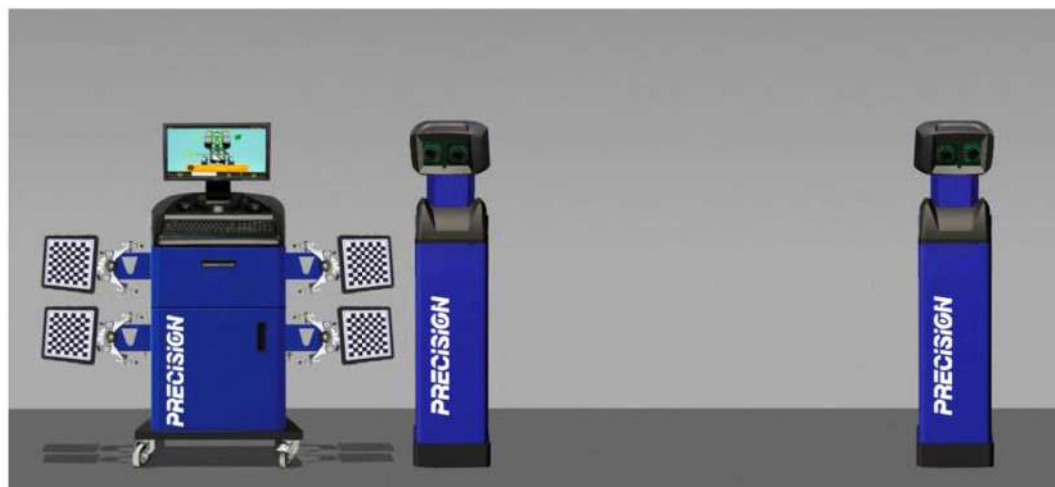
**Report Mode**



**SHARP 3D Software is a powerful and the most up-to-date device for checking and controlling wheel alignment**



**Types of HCV's possible**



**It is designed for floor-mount of wheel aligners.  
Measurements and adjustments are performed on the pit.  
Drive through is allowed.**

**MACHINE VISION SYSTEM**

Machine vision system housings are vertical posts equipped with high precision network cameras with high quality metrics. Data are transferred from cameras to PC via TCP/IP

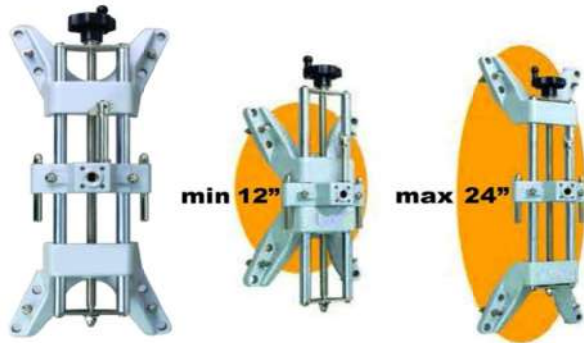
Machine vision system automatically recognizes the targets that are installed on the wheels of the vehicle and the position of the probe target. After that it calculates their geometrical position in space to high precision

Such arrangement of the machine vision system allows taking into account individual peculiarities of a certain workplace and provides drive-through



(Available in Alluminium Version also)

**WHEEL ADAPTERS**



Self-centering wheel adapters with the mobile central part fit 12"-24" wheel disks and are compatible with motorcars and trucks



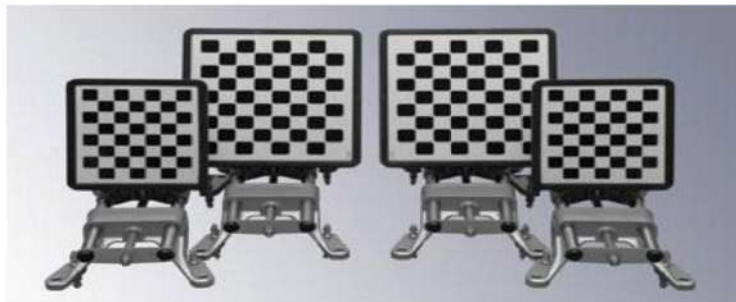
**TARGETS**

Compact and easy targets  
One target for each wheel  
Easy to handle  
The front panel is protected with a rubberized border  
No Electronic components  
No need to calibrate targets



**REMOTE CONTROL**

It allows you to control your PC from the distance up to 10 meters It duplicates the functional keys on the main control panel



## TECHNICAL SPECIFICATIONS

Parameter	Measurement Range	Maximum Error in Measurement	Average Error in Measurement
<b>Front Wheel Alignment</b>			
Camber	± 8,00°	± 3,00'	± 2,00'
Front Total Toe	± 5,00'	± 3,00'	± 2,00'
Caster	± 19,00'	± 8,00°	± 5,00'
SAI / KPI	± 19,00'	± 8,00°	± 5,00'
Lock Angle	± 45,00°	± 10,00'	± 5,00'
<b>Rear Wheel Alignment</b>			
Camber	± 8,00°	± 3,00'	± 2,00'
Rear Total Toe	± 5,00'	± 3,00'	± 2,00'
<b>Symmetry Angles</b>			
Front Set Back (Controllable)	± 2,50°	± 3,00'	± 2,00'
Rear Set Back (Un-controllable)	± 2,50°	± 3,00'	± 2,00'
Thrust Angle	± 2,50°	± 3,00'	± 2,00'
Geometrical Driving Axis	± 2,50°	± 3,00'	± 2,00'
Power Supply		1 Phase, 230 Vac. - 50/60 Hz	
Absorbed Power		500 W	
Noise level in working conditions		< 70 db (A)	

## OPTIONAL

- Calibration Kit

\* Specifications subject to change without notice

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