

# HawkEye Elite® Alignment Systems

*Greater profit and productivity through innovation*

**NOW AVAILABLE WITH  
PUSH REPORTS**



# Hunter's latest productivity features!



*PATENTED*

## Revolutionary adaptor design!

- ✓ Faster setups!
- ✓ No metal-to-metal contact!
- ✓ No knob twisting!



*PATENTED*

## Superior target design!

- ✓ Lighter design!
- ✓ Narrower profile!
- ✓ Faster readings!

# HawkEye

**Elite**





*EXCLUSIVE*

### **Faster Caster!**

Saves time, increases speed and reduces battery drain from brake light draw.



*PATENTED*

### **High-resolution cameras!**

Four high-resolution cameras provide alignment measurements with pinpoint accuracy.



*STANDARD*

### **Recall specs in a snap!**

Recall OE specs and vehicle-specific alignment procedures instantly.\*



*PATENTED*

### **Patented Safety System Alignment integration!**

Reset computerized steering systems on a wide variety of vehicles with one simple tool.



*EXCLUSIVE*

### **QuickComp™!**

Compensate all wheels and capture initial measurements in one motion.



**NEW**

### **HunterNet™ connectivity!**

Automatic push reports plus online business intelligence tools.

\* Standard with WA600 consoles, optional with WA500 consoles.

# QuickGrip® wheel adaptors & three-dimensional targets

Hunter's patented QuickGrip® adaptors and three-dimensional targets accelerate service with set-up times in seconds instead of minutes...

**HawkEye**  
**Elite**



*PATENTED*

## Extremely Fast Installation

- ✓ Spring-loaded arms grip the tire
- ✓ Thumb switch secures the clamp
- ✓ Off-center clamping has no effect on accuracy



*PATENTED*

## Avoid Damage to Expensive Rims

- ✓ Grips tire, not rim
- ✓ No metal-to-metal contact
- ✓ Only protective ring contacts rim



*PATENTED*

## Less Weight

- ✓ Weighs only 6 lbs.
- ✓ Nearly 50% lighter than previous designs



*PATENTED*

## Space-Efficient Profile

- ✓ Approx. 9" profile
- ✓ Easy to work around
- ✓ Great for narrow bays

gets



*PATENTED*

### Quick-Change Arms



✓ Interchangeable arms cover up to 37" assemblies

✓ One arm fits approximately 90% of applications

*PATENTED*

### Deep-Wheel Extension



✓ Deep rims or protruding hubs, no problem

✓ Standard accessory

*PATENTED*

### Wide-Angle Targets



✓ Perform max steer procedure, as needed

*PATENTED*

### Low Maintenance

✓ Shop-tough polymer structure withstands drops

✓ No electronics, cables or calibration

✓ Only occasional cleaning required



# Previous setups used valuable shop time...

## Conventional electronic-sensor system – 10-minute-plus procedure



- ✓ Chock wheels and lift vehicle
- ✓ Jack up front and rear of vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount all 4 sensors, compensate each sensor, and remove pins
- ✓ Lower rear and front of vehicle and jounce
- ✓ Steer caster
- ✓ Print results

**10:05 Total**

### ACTIVITY TRACKER



*Older technology requires long set-up times...*

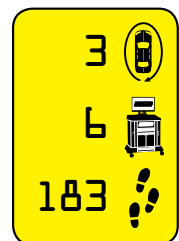
## Camera-sensor systems speed up the process



- ✓ Chock wheels and lift vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount targets
- ✓ Roll backward, then forward to compensate
- ✓ Remove pins
- ✓ Steer caster
- ✓ Print results

**4:00 Total**

### ACTIVITY TRACKER



*Early camera technology improved efficiency...*

**...Today, present your results in just 70 seconds!**




**Hunter's HawkEye Elite® and Premium RX Lift capture all readings and produce measurements in 70 seconds!**


**Hunter's 70-second procedure**


- ✓ Chock wheels and raise lift to work height
- ✓ Mount targets and set air pressure
- ✓ Roll forward to compensate sensors
- ✓ Scan VIN to recall specs and perform faster caster steer
- ✓ Vehicle results print automatically

**1:10 Total**

**ACTIVITY TRACKER**

1 

0 

72 

trip around the vehicle

trips to the console

total walking steps



**Fast printouts in 70 seconds!**

Use detailed printouts featuring your company's logo to sell more work.

# FIA Fully Integrated Alignment



FIA streamlines the entire alignment process.

Communication links automate tasks once performed by the technician manually, eliminating time-consuming trips around the vehicle and to-and-from the console.





1



**PATENTED**

### RX Scissor Lift console

- ✓ Raising the vehicle triggers the sensors to look for wheel targets
- ✓ Control PowerSlide® and Inflation Station settings on the lift console
- ✓ Store bar-code scanner and CodeLink tool near the vehicle to save steps



**H** *AlignLights turn on automatically at alignment height*

2



**PATENTED**

### WinAlign® console

- ✓ Centralized control of entire system
- ✓ Communicate directly with lift to set tire pressure and automatically operate turnplates and slipplates
- ✓ Guide the technician through the alignment process



**H** *Measurements are taken automatically once the fourth target is installed*

3



**PATENTED**

### PowerSlide® system

- ✓ Slipplates and turnplates automatically lock and unlock at appropriate times
- ✓ No more struggles with lock pins



**H** *Auto-locking turnplates and slipplates save trips around the vehicle*

4



**PATENTED**

### Inflation Station

- ✓ Automatically inflate all four tires simultaneously
- ✓ Record starting and final pressure
- ✓ Hose recoils to keep work area clear



**H** *Software tracks before and after tire pressures for the customer's printout*

# Hunter's Safety System Alignment: Over 95 million vehicles require Safety System Alignment... and growing!



## Electronic Stability Control

- ✓ Since 2009, Hunter has supported electronic steering system resets as required by the OEM
- ✓ Several systems use electronic steering system output to determine the vehicle's travel direction

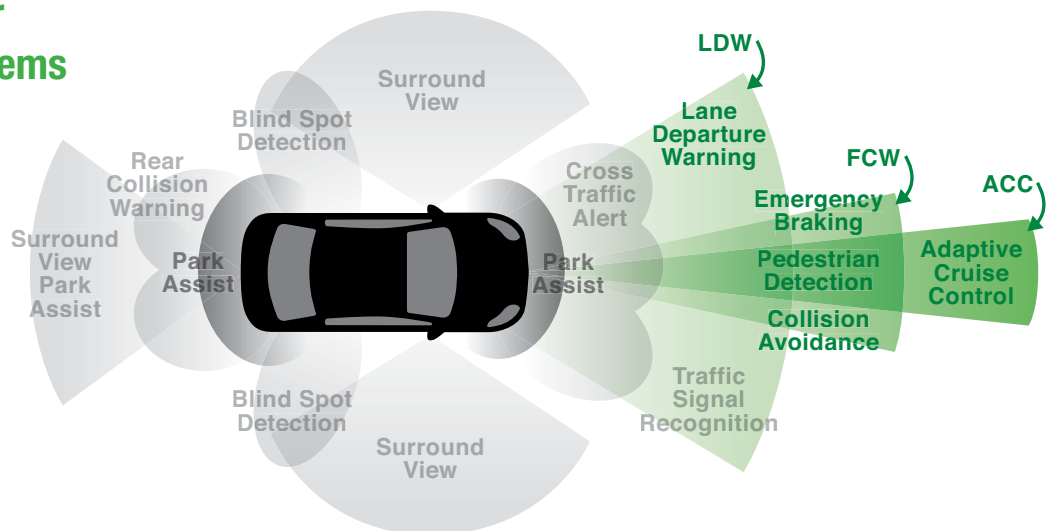


Source: Hunter Engineering Company research

## A growing number of vehicles also require additional resets

## Advanced Driver Assistance Systems

- ✓ Many vehicles are now equipped with ADAS
- ✓ Many systems require a calibration after wheel alignment
- ✓ Often require a short drive be completed as part of the calibration



# Hunter's Safety System Alignment: The last step in alignment service



An increasing number of vehicles include advanced driver assistance systems (ADAS). In addition to a mechanical alignment, manufacturer's specifications often require a Safety System Alignment® on many vehicles equipped with ADAS Systems.

## ADAS systems most likely to require reset

- ✓ Lane Departure Warning (LDW) - Camera-based
- ✓ Forward Collision Warning (FCW) - Radar-based
- ✓ Adaptive Cruise Control (ACC) - Radar-based

## The only integrated, complete alignment procedure

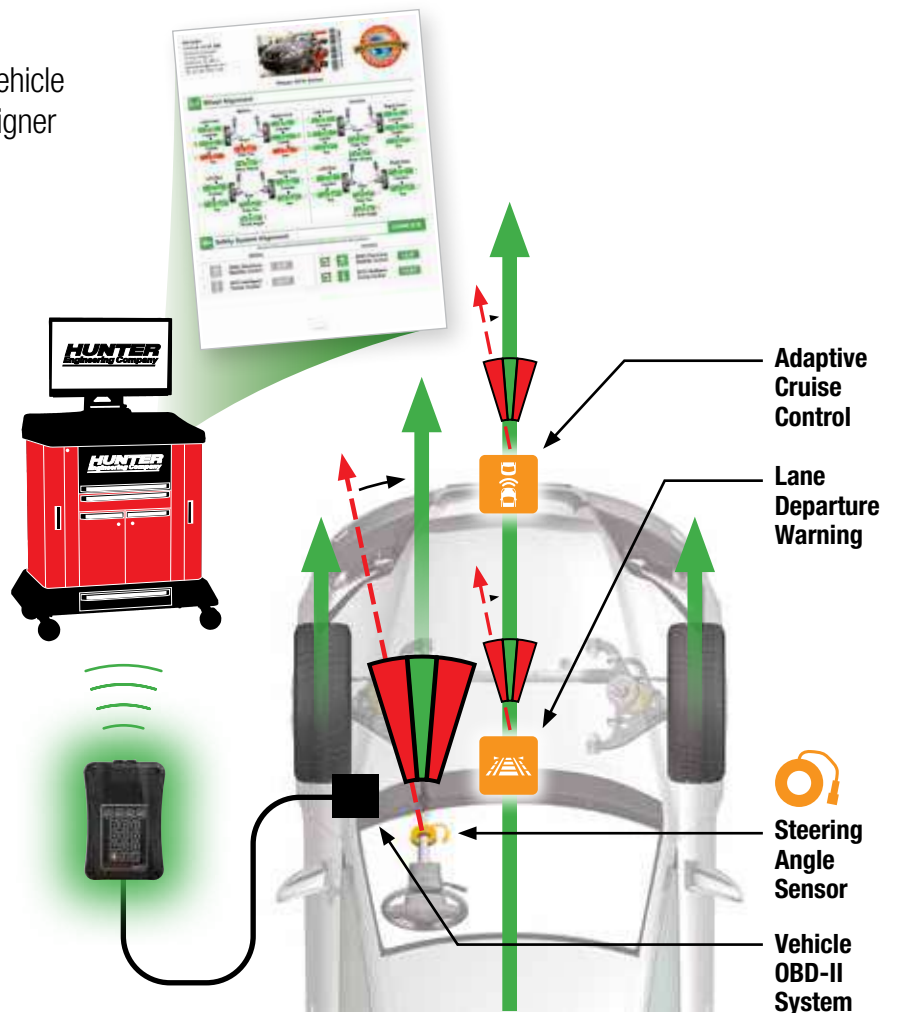


CodeLink's patented integration "links" the vehicle OBD-II system to the aligner

to align safety system related sensors to the vehicle's alignment geometry.

### CodeLink® advantages:

- ✓ Integrated with Hunter WinAlign® systems
- ✓ Simple instructions shown on aligner screen
- ✓ Only one tool required
- ✓ Wireless communication with aligner
- ✓ Resets ADAS systems and other related sensors
- ✓ Alignment printouts document reset

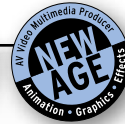


# When it comes to award-winning software, WinAlign® is unmatched!

## The importance of software...



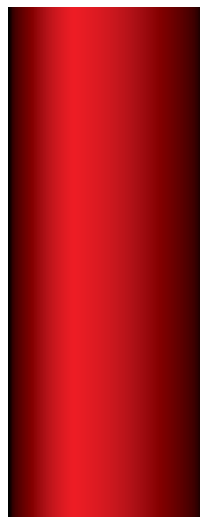
Over 30 years of experience and the largest R&D department in the undercar industry bring you the most profitable and productive software on the market.



Ordinary systems simply present alignment readings



Ordinary camera systems simply speed up these readings

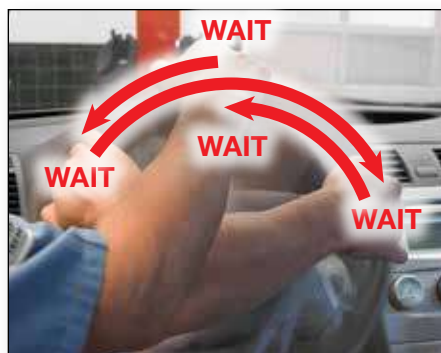


WinAlign maximizes profit and productivity in your alignment bay

- ▶ The **most extensive** vehicle information database for North America's 220 million vehicles.
- ▶ **Vehicle-specific** procedures guide your technicians with step-by-step instructions.
- ▶ **Patented and award-winning power tools** complete the work accurately the first time, every time.
- ▶ **WinAlign maximizes profit and productivity in your alignment bay.**

## New Faster Caster procedure!

- ✓ Eliminates wait times during caster steer
- ✓ Saves time and increases speed
- ✓ Reduces brake pedal depressor installation by 86%
- ✓ Reduces battery drain from brake light draw

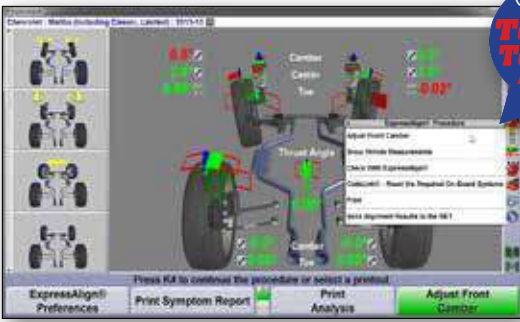


**No more waiting for left, right, and center readings during caster steer**

**NEW**

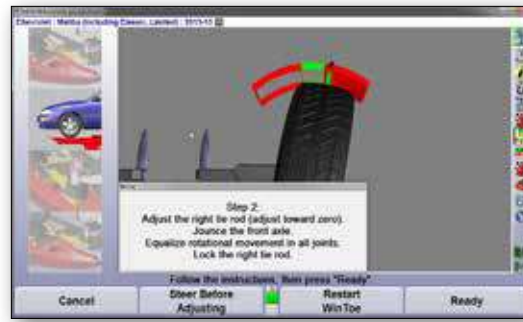


**Steer left, right and back center**



## ExpressAlign®

Perform every alignment with a streamlined procedure. ExpressAlign analyzes each job and presents the optimal action sequence with the minimum steps required.



## WinToe®

Ensure a straight steering wheel every time without repeated adjustments or using a steering wheel holder.

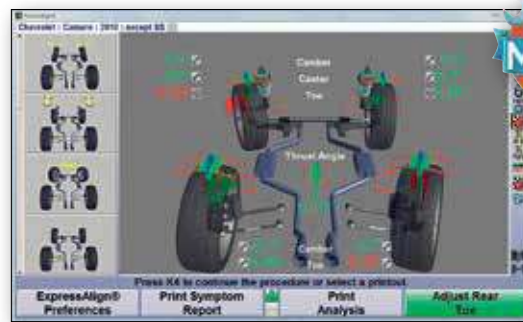
**H A timesaver on nearly every alignment**



## Tools and Kits Database

Save trips back and forth to the tool box. Hunter presents all of the tools and aftermarket correction kits needed for each alignment.

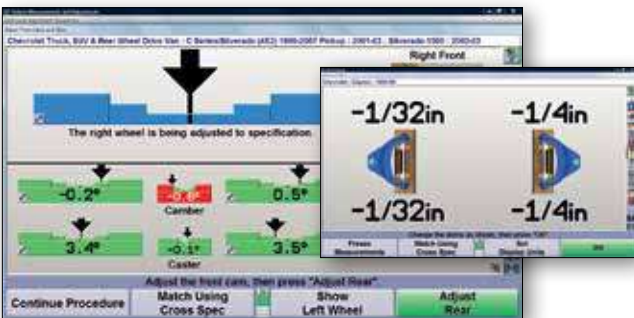
**H Online ordering supported**



## Virtual View®

See your alignment job in 3-D using real-time 3-D graphics. Used by experts and novices alike.

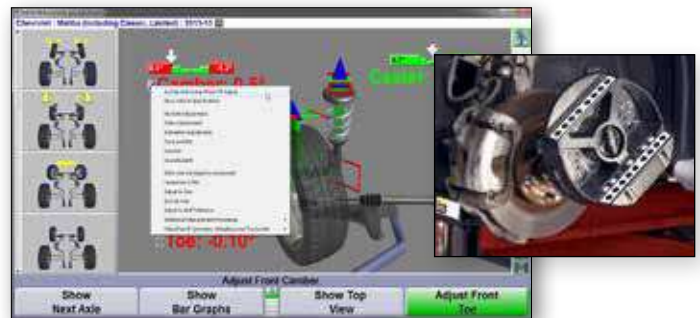
**H Every alignment can be shown in 3-D**



## Control Arm Movement Monitor®

Cut adjustment times in half for front-shim, dual-cam or dual-slot vehicles. Step-by-step graphics let you get it right on the first try.

**H Over 60 million vehicles benefit**



## Wheel-Off Adjustment

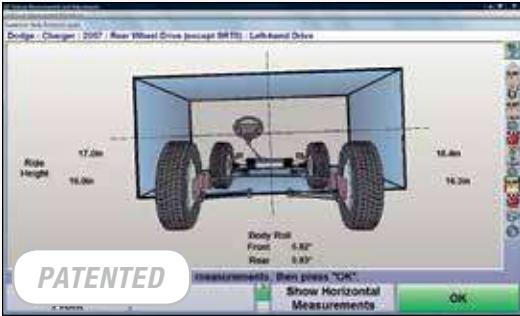
Speed the alignment process by making adjustments with the wheel removed.\*

**H Available when you need it**

\* For three-dimensional targets, both Wheel-Off Adjustment Kit and SCA Adaptor Kit 20-2664-1 is required.

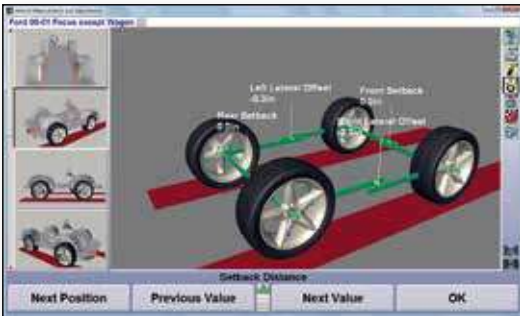
# Take your alignment business to the next level!

Perform body shop and specialty alignments...



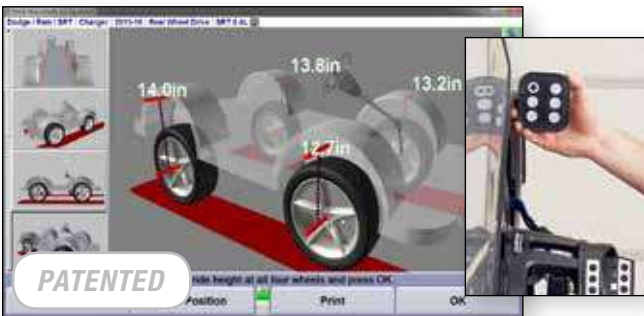
## Suspension Body Dimension Audit

Quickly screen vehicles to determine alignability and collision repair needs.



## Symmetry Angle Measurements

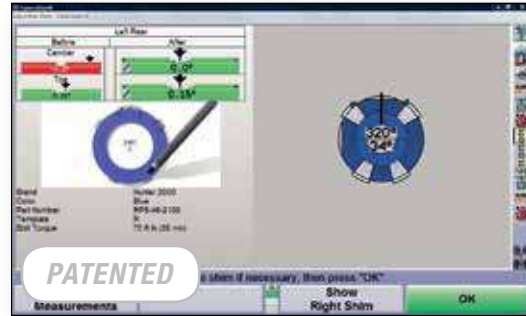
Instantly access symmetry angles and setback for your body shop customers.



## Live Ride Height Adjustment

Measure and adjust ride height in real-time.

**H** Over 20 million vehicles require ride height measurement to complete alignment service



## Shim-Select® II

Eliminate confusing shim charts and tables. Shim Select II quickly calculates and displays the template you need for proper shim installation.

**H** Over 30 million vehicles benefit



## Automatic Bushing Calculator®

Calculate the proper bushing size and position adjustment without wasting time with a zero bushing.

**H** Over 10 million light trucks and vans benefit



## WinAlign® Video Library

400+ videos and animations cover all aspects of wheel alignment today.

# Help your customers make informed decisions!



## WinAlign® printouts help sell work

Explain needed parts and repairs and show completed work to customers using detailed, color-coded printouts.

**H** *Clear and detailed printouts help you communicate and build rapport with your customers and sell more alignments*



## Push Reports

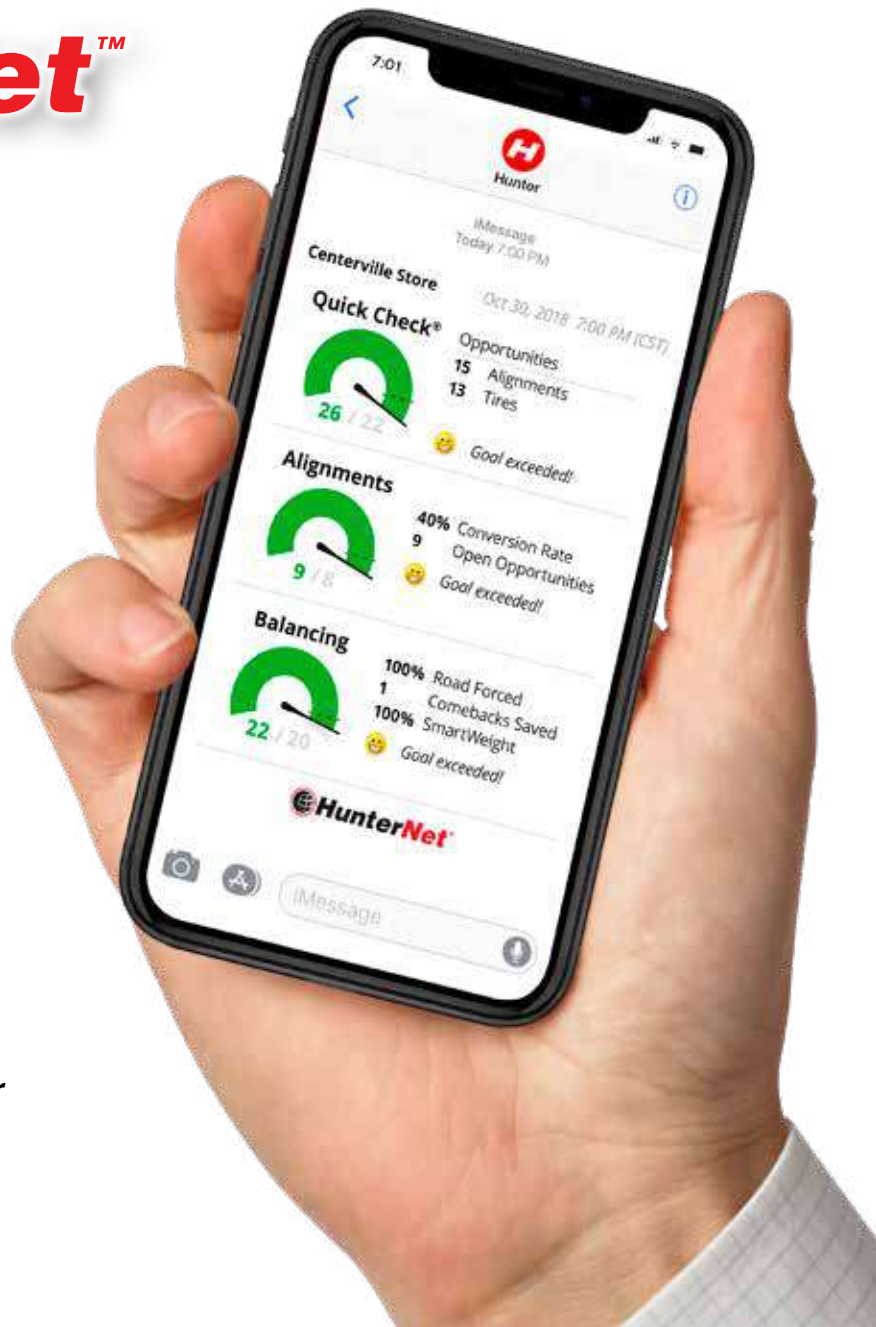
- ✓ Automatic performance snapshots delivered daily via email or text
- ✓ Easy-to-understand report measures output and achievements
- ✓ Track alignment conversions, balancing utilization and inspection opportunities

## Your online business intelligence tool

HunterNet™ allows shops to obtain real-time data through connected equipment results, trends and management reports.

- ✓ Easily track alignment activity and generate reports
- ✓ Cloud storage eliminates multiple paper printouts
- ✓ Email Quick Check® and alignment results, photos and videos to customers
- ✓ Access the latest alignment specifications and adjustment info online with WebSpecs®

**H** *HunterNet™ connectivity empowers you to make data-driven decision to increase your productivity and profitability*



# Use your aligner to perform Quick Checks!



**Use detailed printouts featuring your company's logo to sell more work**

- ✓ Total toe front and rear
- ✓ Camber on all wheels
- ✓ Tire wear indication
- ✓ Identifies vehicles that require Safety System Alignment



## 20-2813-1 CodeLink\*

Retrieves emission codes. Wirelessly transfers important vehicle information to console.



## 20-2781-3 Battery Health\*

Tests battery to OEM specs. Sends results to console wirelessly in 10 seconds.



## 20-2782-1 Tire Tread Depth\*

Quick and easy tire wear check. Conditions transmitted to console automatically.



## Quick Tread®

Creates a 3D model of the tire and can be easily added to existing Quick Check® inspection systems.

\*Requires WinAlign® 14.1 software or higher in Quick Check® mode.



# Choose the right alignment console for your shop!

## WinAlign WA600 Premium consoles

<b>Industry-leading hardware</b>	Processor	3.70 GHz Intel® Core™ i3 (or greater)
	Memory	4 GB of DDR4 RAM
	Hard drive	240 GB Solid State Drive (or greater)
	DVD-RW/CD-RW combo drive	Standard
	Monitor class	24" or 27" widescreen LCD (32" available on large console)
	Wired & wireless network module	Standard
	Operating system	Windows 10 IoT Enterprise
	Three-dimensional target (TD Target™) support	Standard
	Large console with drawers	Standard (with WA68X consoles)
	Compact console with printer drawer	Standard (with WA67X consoles)
	Console-top storage and charging station	Standard (with mobile WA600 consoles)
	Bar Code Reader	Standard



**Large console**



**Compact console**



**Wall-mount console**

<b>Award-winning productivity tools</b>	<i>PATENTED</i>	Award-winning WinAlign® software	Standard
	<i>PATENTED</i>	Vehicle Info Database (30+ yrs)	Standard (2 years free updates)
	<i>PATENTED</i>	Real-time specs delivered by web	WebSpecs® (2 years standard)
	<i>PATENTED</i>	Steering system reset (integrated)	Yes (with standard CodeLink™)
		Quick Check	Standard
	<i>PATENTED</i>	Live Ride Height adjustment	Standard
	<i>PATENTED</i>	Fully Integrated Alignment	Yes (FIA-equipped lift required)
	<i>PATENTED</i>	Modified vehicle alignment	Yes (with standard WinAlign Tuner)
	<i>PATENTED</i>	Vehicle inspection with photos	Standard
	<i>PATENTED</i>	Tools & Kits	Videos and Photos
		Equipment video help/assistance	Standard
	<i>PATENTED</i>	ShopResults (via ShopResults.NET™)	2 years standard
	<i>PATENTED</i>	Training and productivity aids	4,000+ photos, 1,600+ illustrations 400+ videos & animations

# Choose the right sensor package for your shop!



Fixed-column configurations fit most service bay applications.



Motorized and manual movable-camera configurations provide a full range of vertical travel for additional lift height.



Cabinet-mounted configuration is mobile to service multiple alignment bays and provides a full range of travel for additional lift height.



Wall- and ceiling-mount configurations are perfect when space is at a premium.



Floor-mounted overhead configurations are ideal for drive-through bays or to accommodate unique applications.



One set of adjustable clamp arms covers the same clamping range as standard multi-arm kit.

# HawkEye Elite® alignment sensor and adaptor specifications



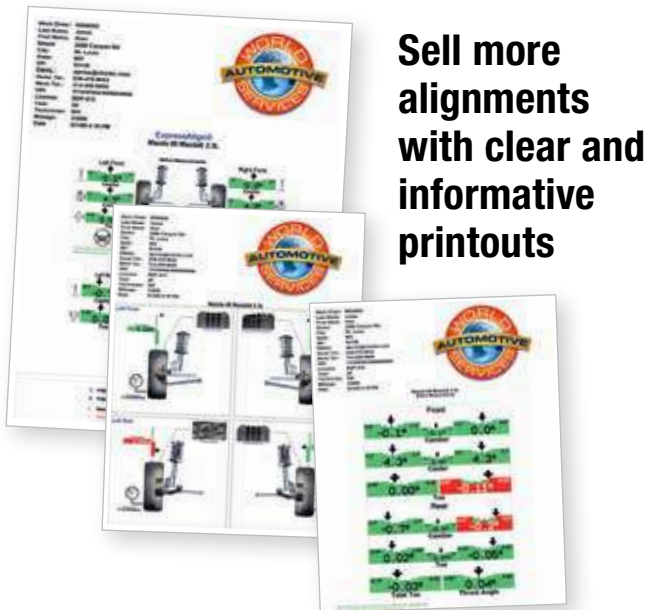
<b>Specifications</b>	<i>PATENTED</i>	No metal-to-metal contact with wheel	Standard
		Weight of assembly	6 lbs.
		Profile of assembly	9 inches
		Installation time per wheel	5 seconds
		Rolling compensation style	Forward
		Camera resolution	2,608 x 1,952 (pixels per camera) 20,000,000 (pixels total)
		Track width	80 inches
		Wheelbase	210 inches
		Distance to wall*	66 - 107 inches
		Suggested distance*	99 inches
		Short-bay distance (see site info)*	66 inches
<b>Secondary Measurements</b>		S.A.I. and included angle	✓
		Setback	✓
		Maximum steering angle**	To lock
	<i>PATENTED</i>	Live ride height***	✓
		Wheelbase difference	✓
		Track width difference	✓
		Tread width difference	✓
		Lateral offset	✓
		Rear setback	✓
		Axle offset	✓
<b>Body Measurements</b>	<i>PATENTED</i>	SBDA	✓
	<i>PATENTED</i>	Body angle	✓
	<i>PATENTED</i>	Body wheel offset & setback	✓
	<i>PATENTED</i>	Body roll**	✓
<b>Adjustments</b>	<i>PATENTED</i>	Way Up Way Out WinToe**	✓
	<i>PATENTED</i>	Wheel-Off Adjustment	Optional

\* Refer to site requirements for exact bay specifications.

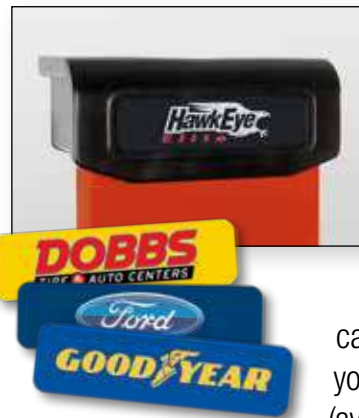
\*\* Requires optional wide-angle target extensions.  
\*\*\* Requires Ride Height targets. Standard with WA600 consoles, optional with WA500 consoles.

# Increase revenue with Hunter merchandising!

Introduce your wheel alignment capabilities and educate your customers with great Point-of-Sale options from Hunter.



**Sell more alignments with clear and informative printouts**



**STANDARD**

## Customized column cap

Make your alignment bay stand out. Hunter's lighted sensor column cap can be customized with your logo or shop name. (available for most sensor configurations)



Be sure to check out other Hunter literature for more quality products from Hunter Engineering.



**HUNTER**  
Engineering Company

[www.hunter.com](http://www.hunter.com)