

# ***DSP600 Alignment Sensors***

***For Picture Perfect® Alignment***

***Four Digital Cameras  
Provide Continuous  
Alignment Measurements  
with No Moving Parts***



***HUNTER***  
***Engineering Company***

# Hunter DSP600 Sensors\* Provide Picture Perfect® Alignment

**Engineered to be a Cost-Effective, Long-Term Investment That Offers:**

## **Speed**

- Mount targets
- Roll the vehicle to compensate
- View measurements

**It's that quick!**

## **Durability**

- No electronics at the wheel; no electronic circuitry to damage if targets are dropped
- No moving parts and virtually no maintenance
- No target calibration

## **Ease of Use**

- Wide field of view
- Vehicle can be raised to a comfortable working height for adjustment
- No cables or electronic signals between the targets and the console
- Uses Hunter's award-winning WinAlign® Software

**Unique Design Speeds Alignment...  
Reduces Down Time**

- 1.** Four high-resolution digital video cameras (one per target) continuously monitor targets at each wheel. Cameras are mounted up high, out of harm's way.
- 2.** DSP600 Sensors provide the same high-speed screen updates as conventional sensors.
- 3.** Optional hand-held LED Remote Indicator provides complete control while performing rolling compensation and making vehicle adjustments.
- 4.** Alignment targets\* require:
  - No calibration
  - No electronics
  - No cables
  - No batteries





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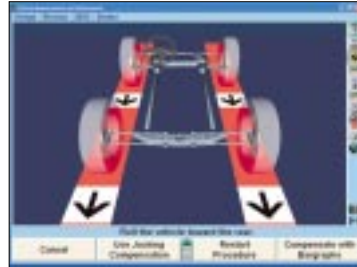
***Patented fixed position cameras allow the technician to raise the vehicle to a comfortable working position for vehicle adjustments.***

**5.** DSP600 Sensors can be used with existing Hunter 811 Series alignment equipment using WinAlign® Software (7.0 or newer required).

DSP600 Sensors are shown with optional R811P17L Console, Remote Indicator, RX lift rack and GSP9700.

# High-Speed Rolling Compensation Helps Your Shop Complete More Alignments Per Day

## Obtain Measurement Data Faster Than Conventional Sensors

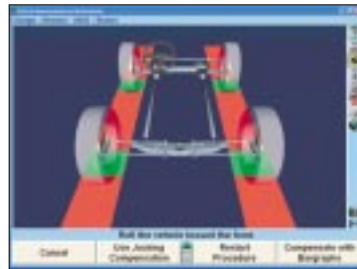


### Step 1

- Mount alignment targets

### Step 2

- Roll vehicle back until on-screen indicators turn green



### Step 3

- Roll vehicle forward and stop on center of turnplate

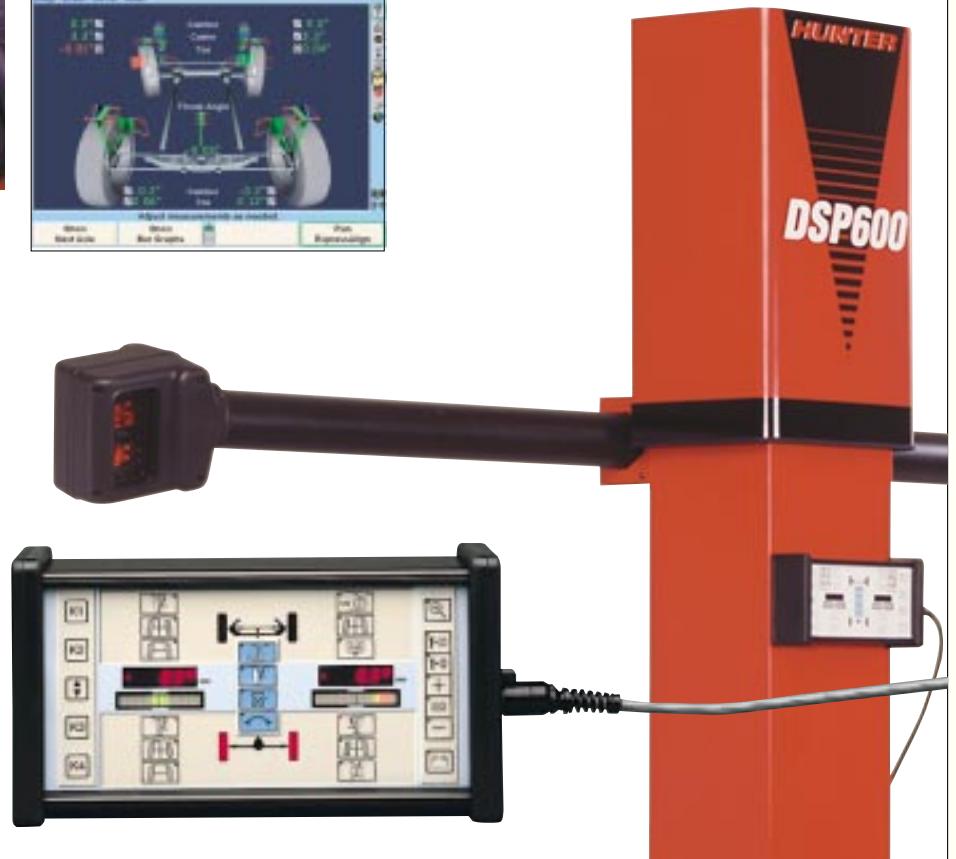
### Step 4

- All front and rear camber and toe measurements are immediately displayed



## LED Remote Indicator

**T**he optional LED Remote Indicator allows the technician to easily perform rolling compensation when the console is out of view and provides complete control while making adjustments underneath or at the rear of the vehicle.



## Digital Cameras

**H**igh-resolution digital cameras continuously measure wheel target position and orientation, providing the same alignment measurements as conventional sensors.

DSP600 Sensors use **multi-dimensional** modeling to provide accurate alignment measurements. The operator can use either live plane mode, which uses the targets as a reference plane **or** the traditional alignment mode, which uses the rack runways as a reference plane.

## DSP600 Alignment Targets\*

### Durable

- Corrosion resistant
- "Shatterproof" aluminum faceplate
- Impact-resistant housing
- Integrated protective bumpers
- No glass

### Ease of Use

- No electronics at the wheel
- Virtually maintenance free
- No calibration
- Lightweight
- No cables

### Self-Centering Adaptors

Self-centering wheel adaptors cover an extended range, allowing the adaptor to be used for passenger car or heavy-duty truck use. Optional extensions and adaptors are available for specialty and hard-to-mount wheels.

**Targets have  
no electronics  
to damage  
if dropped.**



**Four stationary cameras  
(one for each wheel) measure  
the position and orientation  
of alignment targets.**



**Lightweight cordless targets  
are easy to install.**

## ***DSP600 Configurations Available to Fit Most Shops***



***The DSP600 standard configuration (shown with optional W Cabinet) fits most service bay applications.***



***DSP600L\* provides a vertical camera lift with a 51-in. range of motion to achieve additional lift height or to work with the vehicle lowered to the floor.***



***DSP600LP\* provides 18 in. of vertical camera lift to achieve added lift height.***



**The wall mount DSP600WMS is designed for straight approach bays where obstructions prevent use of the standard DSP600 model...**



**and the DSP600WMH is designed for angled approach bays.**



**DSP600PM features overhead-mounted cameras for pit applications (shown with optional wall-mounted W cabinet).**

**The DSP600L-DT (not shown), designed for drive-through applications, offers the same convenience and camera lift features as the DSP600L.**

## **DSP600 Sensors Provide Fast, Accurate Alignment Readings on a Wide Range of Vehicles...**

**Vehicles with targets mounted are shown on a Hunter L421 Four-Post lift (DSP600 cameras and hangers are not shown).**



**Short wheelbase vehicles**



**Extended wheelbase, wide track-width vehicles**

# DSP600 Sensor Specifications and Options

## Software Requirements

DSP600 Sensors can be used with:

- Any Hunter 811 or newer aligners running WinAlign® 7.0 or newer software
- Any Hunter 211/411/611 console that has been upgraded to a Series 811 aligner

## DSP600 Configurations:

- **DSP600** – standard configuration for most service bay applications
- **DSP600WMS<sup>†</sup>** – wall-mount cameras for straight approach bays
- **DSP600WMH<sup>†</sup>** – wall-mount cameras for angled approach bays
- **DSP600L** – full rise vertical camera lift for additional lift height or to work with vehicle on floor
- **DSP600LP** – 18" vertical camera lift for additional lift height
- **DSP600L-DT** – drive-through configuration of the DSP600L (not shown in brochure)
- **DSP600PM** – overhead-mounted cameras for pit applications

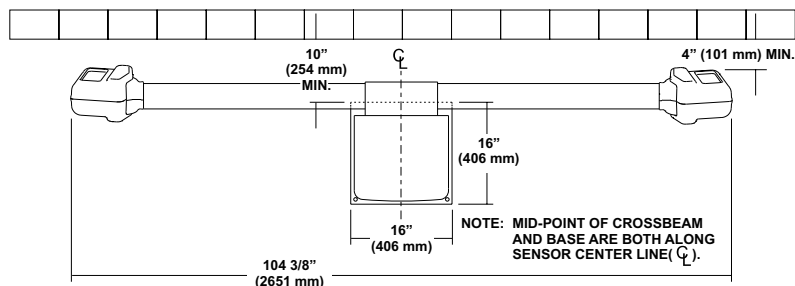
*† Ideal where obstructions prevent use of standard DSP600 model.*

## Special Lift Information

DSP600 Sensors can be used with:

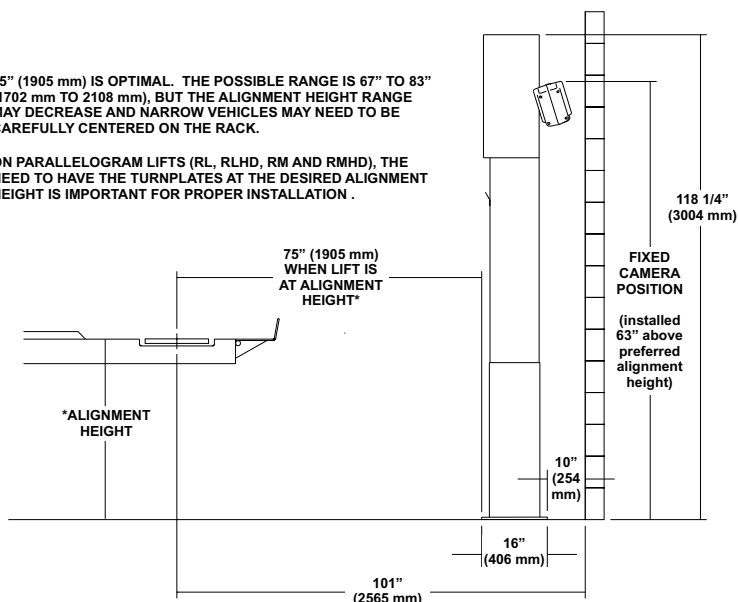
- Hunter RL & RM Lifts
- Hunter D1 & D2 Diagnostic Racks
- Hunter Power Lifts
- Hunter RX Scissor Lifts
- Hunter 4-Post Lifts
- Hunter 2-Post Lifts ordered before 01/01/99:
  - L202-SB (use of DSP600 Sensors not recommended for use with short 93" beam installations).
  - L202 or L201 (standard 100" offset beam must be upgraded to 100" symmetric beam, Part Number: 118-624-1).
- Hunter 2-Post Lifts ordered after 01/01/99:
  - L202-LB (recommended use of 103 1/2" offset beam ideal for DSP600 installations).
  - L202 Standard (for narrow bays substitute symmetric beam, Part No: 118-624-1, for 100" offset beam, Part No: 118-582-1).

## Site Dimensions for DSP600 (Shown), DSP600L and DSP600LP



NOTE: 75" (1905 mm) IS OPTIMAL. THE POSSIBLE RANGE IS 67" TO 83" (1702 mm TO 2108 mm), BUT THE ALIGNMENT HEIGHT RANGE MAY DECREASE AND NARROW VEHICLES MAY NEED TO BE CAREFULLY CENTERED ON THE RACK.

NOTE: ON PARALLELOGRAM LIFTS (RL, RLHD, RM AND RMHD), THE NEED TO HAVE THE TURNPLATES AT THE DESIRED ALIGNMENT HEIGHT IS IMPORTANT FOR PROPER INSTALLATION.



## Optional Accessories



**Tire Clamp Adaptor** – Grips onto tire tread, protects alloy wheels from damage. Ideal for wheels with no rim lip, tires equipped with a flange guard or when space between tire rim is limited (Part No. 20-1558-1).



**Wheel Adaptor Extension** – Increases maximum wheel size that the self-centering adaptor will fit from 20 in. (508 mm) to 22 in. (559 mm) (Part No. 20-1097-1).

WinAlign and Picture Perfect are registered trademarks of Hunter Engineering Company.

For detailed information on models, cabinets and accessories, contact your Hunter representative. Specifications, models and options are subject to change without notice.

Visit our Web site at [www.hunter.com](http://www.hunter.com)

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