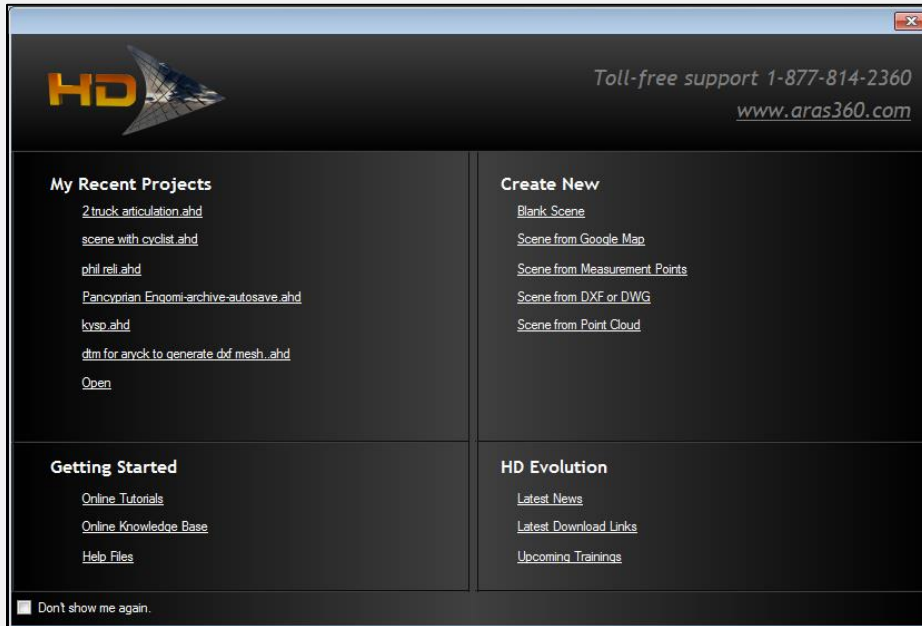


# ARAS 360 HD v2.0.6 Release Notes

## New Features and Updates:

- 2012/2013 Vehicle Specs Database update. ARAS HD and 360 users can now access all vehicles contained in the Transport Canada database up to the 2012/2013 model year.
- ARAS HD users can now export a DXF terrain mesh that can be imported by PC Crash and HVE users.
- ARAS HD users can now import PC Crash simulation data to create high quality animations.
- Created a start-up form for ease of use. ARAS HD users will now see a convenient Quick Start Guide when the program launches.



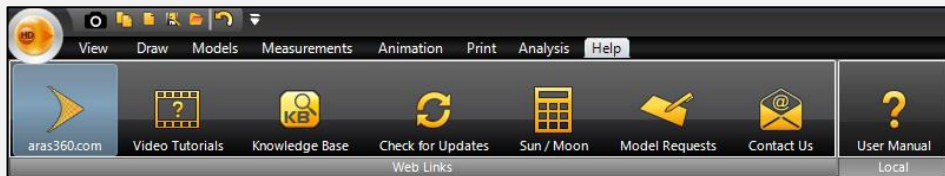
- Added a custom evidence marker creator under the Custom Signs dropdown on the Models tab.



- Added over 100 new models, including 27 of the most popular vehicles sold in North America.

Rank	Vehicle	April 2012	% Change	Year To Date	YTD % Change
#1	Ford F-Series	47,453	+ 4.4%	191,280	+ 11.2%
#2	Toyota Camry	36,820	+ 20.9%	142,225	+ 32.6%
#3	Honda Accord	35,385	+ 25.6%	96,517	+ 2.3%
#4	Chevrolet Silverado	30,749	+ 4.8%	126,387	+ 3.8%
#5	Toyota Prius Family	25,168	+ 102%	86,027	+ 55.7%
#6	Toyota Corolla/Matrix	24,804	+ 2.4%	93,232	- 7.6%
#7	Honda Civic	24,423	- 8.8%	101,592	+ 10.7%
#8	Honda CR-V	23,627	+ 9.0%	98,214	+ 24.1%
#9	Chevrolet Malibu	21,906	- 11.3%	80,456	+ 9.5%
#10	Ford Fusion	21,610	+ 2.0%	85,559	- 0.8%
#11	Dodge Ram	21,126	+ 19.5%	88,590	+ 25.8%
#12	Hyundai Sonata	20,521	- 5.6%	75,716	+ 2.9%
#13	Ford Focus	19,425	+ 12.5%	85,468	+ 57.3%
#14	Chevrolet Equinox	18,282	+ 7.1%	69,859	+ 15.9%
#15	Chevrolet Cruze	18,205	- 27.6%	75,288	- 0.1%
#16	Ford Escape	16,986	- 20.0%	75,590	- 2.1%
#17	Hyundai Elantra	16,836	- 23.8%	61,237	- 3.3%
#18	Nissan Altima	16,239	- 5.8%	112,599	+ 29.7%
#19	Volkswagen Jetta	15,658	- 7.6%	54,424	- 6.1%
#20	Toyota RAV4	15,196	- 2.5%	55,061	- 0.7%
#21	Chevrolet Impala	14,965	- 29.0%	65,342	- 7.5%
#22	Ford Explorer	14,086	+ 11.9%	47,731	+ 13.4%
#23	Chrysler 200	13,343	+ 61.3%	44,981	+ 120%
#24	GMC Sierra	12,598	+ 19.7%	47,270	+ 6.3%
#25	Jeep Wrangler	12,184	+ 34.6%	41,956	+ 31.4%
#26	Jeep Grand Cherokee	11,834	+ 20.7%	49,337	+ 37.4%
#27	Dodge Grand Caravan	11,183	+ 27.2%	45,645	+ 24.3%
#28	Dodge Avenger	11,147	+ 47.1%	32,776	+ 69.6%
#29	Kia Optima	11,021	+ 68.7%	46,401	+ 110%
#30	Toyota Tacoma	10,901	+ 3.7%	43,020	+ 20.6%

- Added a Help tab with links to our knowledge base, video tutorials, updated user manual, etc.



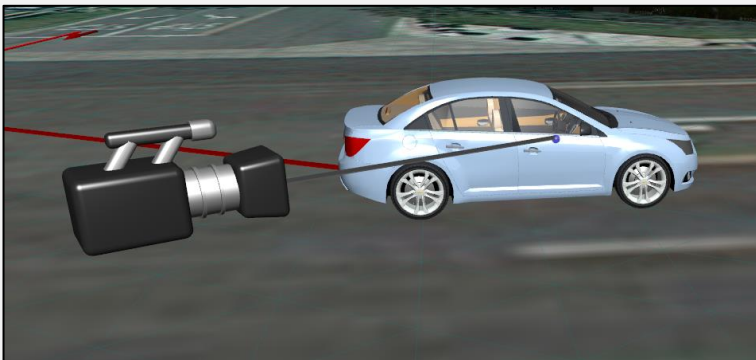
- Enhanced the compass HUD (heads up display).



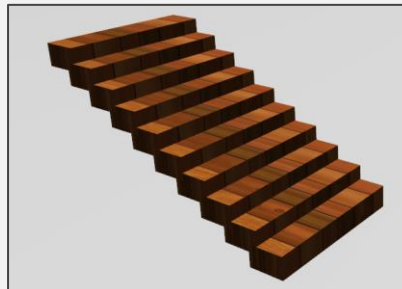
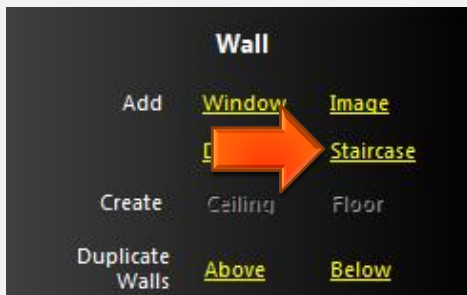
- Updated the Google Maps API to version 3. Not only are the maps updated, but now users can choose to see the Panorama of the scene. The panorama images in this impressive new feature are automatically assigned to the Panorama layer.



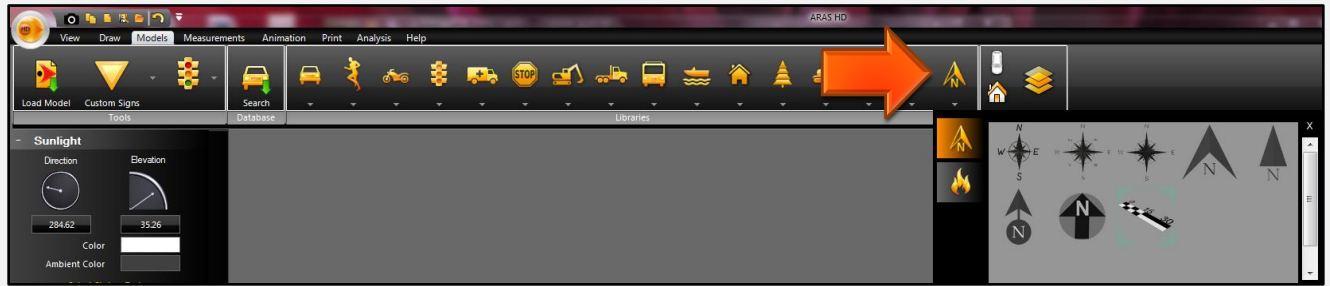
- Animation positions may now be added to the start of a path.
- Updated the Momentum user interface for ease of use. Momentum systems are now automatically placed on their own layer.
- Updated the Layers panel to make it more intuitive. Reversed the order that layers appear in the control panel and added text to the bottom of the form to explain the relationship between layer order and printing.
- Updated the Animation Cameras user interface for ease of use.



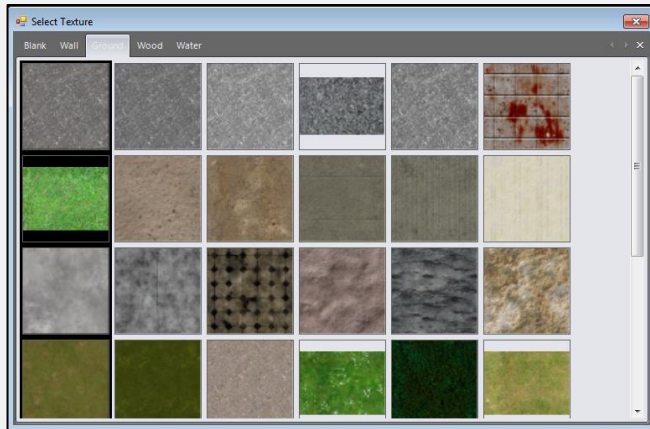
- Allowed the setting of default text for the Label/Text tool.
- Created a measurement log import for Sokkia SDR-33. It might be old but it still works!
- Added snaps to the Trajectory Cone tool.
- Added a Staircase tool under the Structure Genius tools.



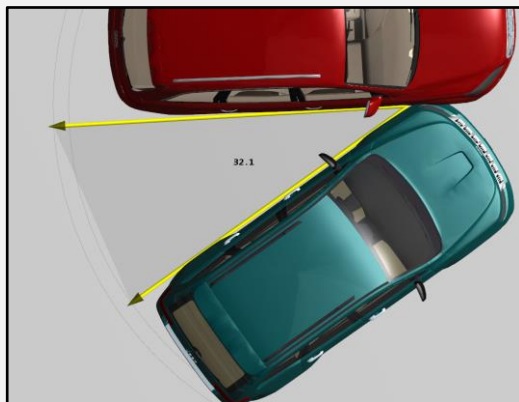
- The scale bar, fire tool, explosion tool, and the north arrows are now located on the Models tab under the north arrow category.



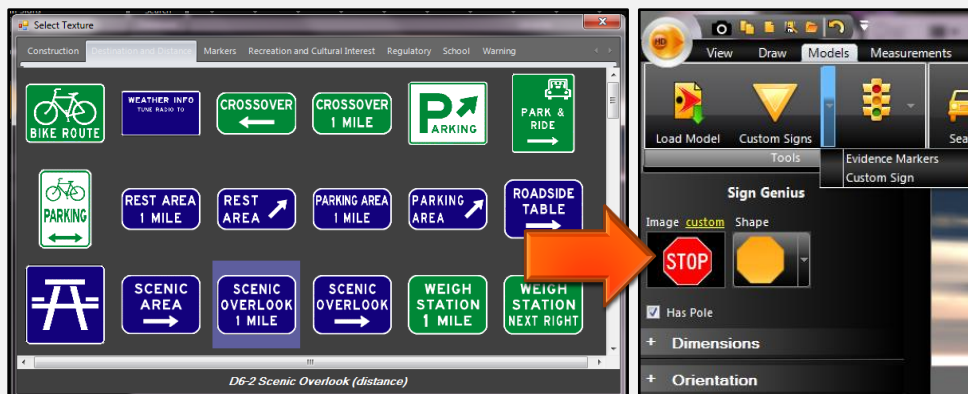
- Upgraded the Texture Gallery. The new gallery will now separate textures into different categories and display the textures at a larger size.



- When using the Protractor tool, there is now a "Draw Arc" option.



- Added over 400 additional custom sign textures for the creation of custom road signs using the Custom Signs tool located on the Models tab.



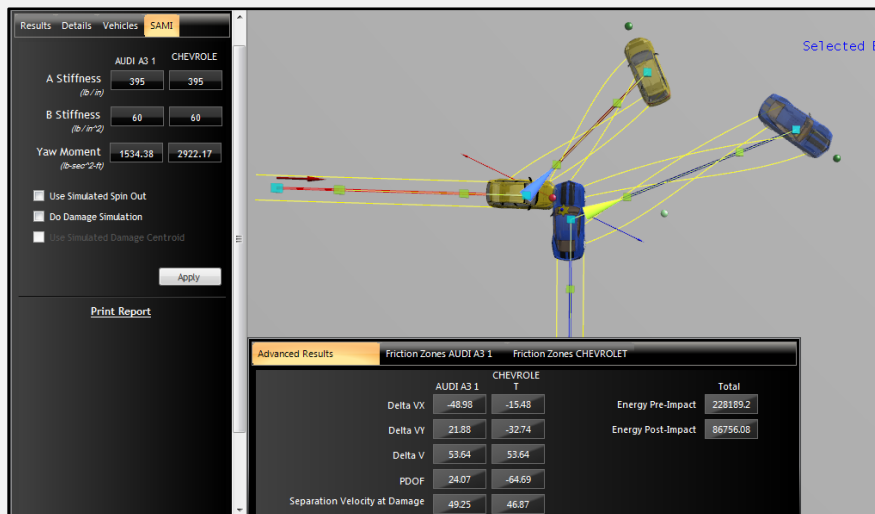
## Bug Fixes:

- Fixed an issue with templates not resizing after editing the paper size in Print Preview.
- Fixed multiline text import for DXF/DWG.
- Fixed the Curve Polygon import for DXF/DWG.
- Fixed an issue with the Ellipse tool drawing filled instead of as an outline.
- DXF export: fixed the point list offset issue with measurement point log.
- When attaching a light to a model, HD will automatically open the Lights panel with the new light selected.
- Export to CSV from measurement log will now start at 1.
- Fixed the issue with the Momentum Tool deselecting when re-selecting the model for V1 or V2.
- Fixed issue with "Pose" checkbox being visible on sub-animated dummies.
- Fixed the tab order on the print form when filling out template fields.
- Add Parallel will now auto select the text field to enter the offset.
- Set maximum model rotation to 0.15 radians per mouse move. As such, when changing the pitch, yaw, or roll with the circular gimbal grips, model rotation is now more easily controlled.

## New Product Release: SAMI

With the purchase of SAMI, ARAS HD users can now calculate the impact speeds of colliding vehicles using momentum and simulation together. The SAMI (Simulated Angular Momentum Interactive) system blends SMAC (Simulation Model of Automobile Collisions) technology with angular momentum analysis to deliver a truly interactive solution for determining the impact speeds of colliding vehicles.

- Released the SAMI advanced module, including simulated damage and simulated spinout, for those that have purchased it.
- SAMI blends high level functionality from the ARAS HD Momentum solution with crush and spin simulation from SMAC.
- Tire mark trajectory lines: allows users to rotate the vehicles in the momentum tool and immediately see if the tire lines match the real tire line evidence for accurate spin out analysis.
- Spin-out analysis: allows users to enter the friction associated with the vehicle trajectories (multiple zones if required) and also enter the wheel by wheel percentage braking for a real time and robust calculation of the post impact deceleration.
- Secondary impacts: the zone editor within the momentum system allows users to place and quantify secondary impacts.
- Automatic animation of momentum results.
- Damage simulation: simulated damage can be compared to real world results as a verification of accuracy.
- Spin analysis: the spin analysis option uses a basic tire road model to spin the car and displays the tire marks as black lines in real time.



Visit <http://aras360.com/products/software/modules/sami.html> for more information.