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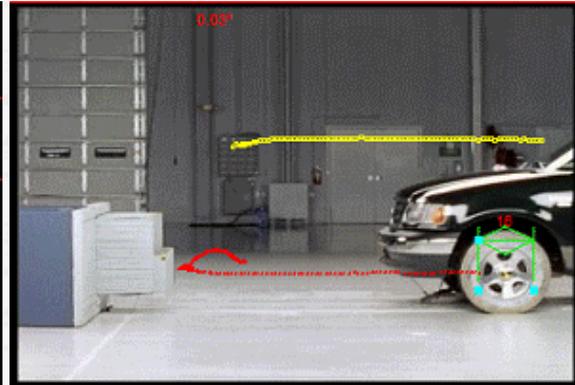
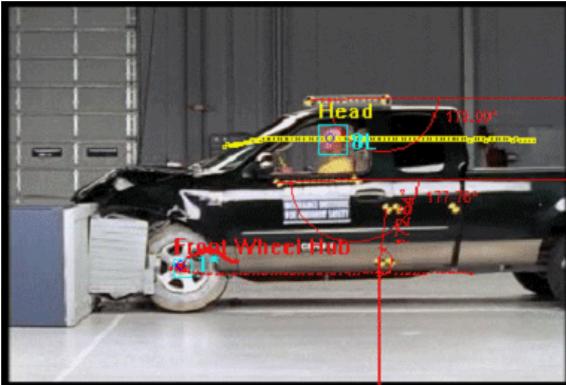
Features

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Crash Testing

This example is an analysis of a crash test. Tracked points include targets located on the front wheel hub, the driver's door, the roof and the head of the crash test dummy. Tracked data are exported to Excel for further analysis of speed, acceleration, distance and angular measurements. Multiple calibrations provide accurate measurements for all motion planes.



F-150 40mph Crash Test.xls

	A	B	C	D	E	F	G	H	I	J	K	L	
1	Motion Analysis Data Sheet												
2													
3	Test Data												
4													
5	Test ID:	2001 Ford F-150 40 mph Crash Test						Based on Butterworth Low Pass Filter :	30	hz			
6	Date:	9/11/2005						Max Speed:	63.90	ft/sec			
7	Time:	10:11:54 PM						Min Speed:	3.99	ft/sec			
8	File Name:	E:\Pro Analyst\Crash Test\F-150 40 mph\OF-150 Crash Test - 1.avi						Deceleration:	336.99	ft/sec ²			
9								Time After Impact:	0.163	sec			
10	Calibration												
11													
12	Calibration:	2.13	Pixels / Inch										
13	Tilt:	180.00	Degrees										
14	Export Units:	Feet											
15													
16	Tracking Data												
17													
18		Frame	Time	Position [feet]					Speed [ft/sec]				
19				x	y	Δt	Δx	Δy	Calculated	Filtered			
20		40	0.06667	-1.15	4.19				66.05	63.90			
21		41	0.06833	-1.04	4.20	0.00167	0.10980	0.00784	58.82	63.76			
22		42	0.07000	-0.94	4.20	0.00167	0.09804	0.00000	58.82	63.62			
23		43	0.07167	-0.84	4.20	0.00167	0.09804	0.00000	58.82	63.48			
24		44	0.07333	-0.75	4.20	0.00167	0.09804	0.00000	58.83	63.33			
25		45	0.07500	-0.64	4.20	0.00167	0.10196	0.00000	61.18	63.18			
26		46	0.07667	-0.54	4.20	0.00167	0.10196	0.00000	61.18	63.02			
27		47	0.07833	-0.44	4.20	0.00167	0.10588	0.00000	63.53	62.85			
28		48	0.08000	-0.34	4.20	0.00167	0.09412	0.00000	56.47	62.68			
29		49	0.08167	-0.24	4.20	0.00167	0.10588	0.00392	63.57	62.50			
30		50	0.08333	-0.14	4.20	0.00167	0.09804	0.00000	58.83	62.31			
31		51	0.08500	-0.04	4.20	0.00167	0.09804	0.00392	58.87	62.12			
32		52	0.08667	0.08	4.20	0.00167	0.11765	0.00000	70.59	61.92			
33		53	0.08833	0.16	4.20	0.00167	0.08235	0.00000	49.41	61.71			
34		54	0.09000	0.27	4.20	0.00167	0.11273	0.00000	60.75	61.48			

Left Door Upper Rear / Left Door Upper Front / Roof Front / Roof Rear

