



The Most Trusted Retrofit Safety Brand

- 13 years of innovation, product leadership in safety applications
- OEM-based products work better, get returned less
- Strong relationships with the best distributor base in the industry









SAFETY IS NOT AN OPTION

The US traffic death rate is increasing

Technology solutions are making vehicles safer

Retrofit safety products can have biggest impact

• Public education and trust are key Normalian

U.S. Safety Council Recommended Safety Tech

	Distracte	d Driving	Enhanced 1	Night Vision	360 Vision			
	Forward Crash Warning	Lane Departure Warning	Night Vision	Adaptive Front Lighting	Blind Spot Detection	Surround View	Park Assist Features (i.e backup cameras)	
Aftermarket				X				
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From National Safety Council Policy Statement #133

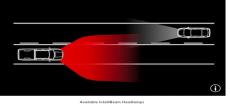


New Vehicle Safety Technology is Proliferating...



















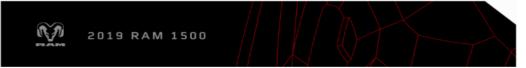




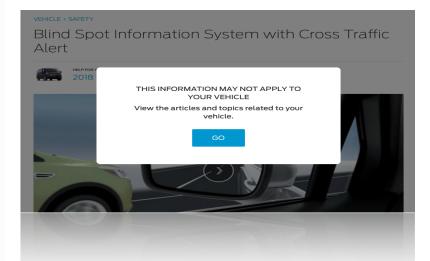




...But Not at the Trim Levels Fleets Want



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Brandmotion OEM-Grade Radar Blind Spot

"If every vehicle in the US were equipped with RDBS, 50,000 crashes could be prevented" - IIHS





Brandmotion OEM-Grade Surround Vision

All systems feature 8 selectable views and turn signal activated side cameras



Top View + Front



Rear Full View



Top View + Right



Front Full View



Top View + Left



Top Full View



Top View + Rear



Top View + Side Views



Alert

Adjustable Forward Crash + Lane Departure Warning + DVR



The First OEM Grade Forward Crash and Lane Departure Warning System with DVR

Finally, an OEM-grade, visually appealing forward crash and lane departure warning system with DVR. The ADAS+ will alert drivers to potential hazards and accidental lane departure by monitoring the road and changing driving conditions through a forward facing camera.



The National Highway Traffic Safety Administration (NHTSA) lists Front Collision and Lane Departure warning systems as essential components of 5-Star Safety warning systems, suggesting that both tools will soon be mandatory.

safercar.gov *****



The Value of Connected Vehicle Retrofits

The Only Way to Save the Other 30,000 Lives

Prove the technology works

- Evaluation of suppliers
- Testing and data collection
- Study the data and adjust

Find ways to make it work better

- Create process to follow
- Time saving discoveries

Learn from the challenges





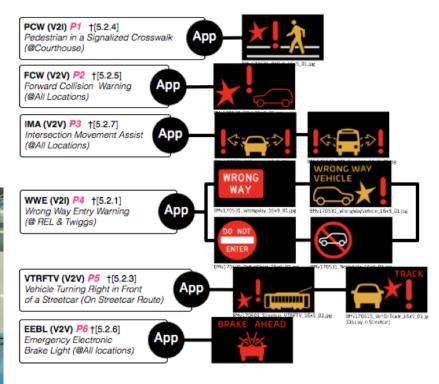
Find Ways to Make it Work Better

Developed HMI

- Warnings displayed to driver on a Brandmotion rear view mirror
- Graphics that get driver's attention without distraction
- Functional design of applications









Find Ways to Make it Work Better

CAN Decoding Device

- Saves time at installation by grabbing different signals including turn signals, reverse, brake from CAN BUS
- No splicing of cables needed preventing warranty voidance



CAN Aggregator

- Translate vehicle CAN messages to common spec (CAMP CAN)
- Beneficial for CV deployments when vehicle data is needed
- Adaptable to customer requirements
- No splicing of cables needed, preventing operability issues



Challenges and Lessons Learned

Real World Pilots with Real Resident Vehicles

Challenges

- Working with the public
- Changing standards
- Loose requirements
- Certifications
- Multiple OBU suppliers

Lessons Learned

- Brandmotion's strategy for success is early sourcing and partnerships
- Collaborative supplier involvement from the start is key
- Plan for everything to take longer than initially expected





Join the VZAN Movement

- Equip more vehicles with aftermarket safety technology
- Support local community efforts to reduce traffic deaths



