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Rinspeed's "Snap" Concept Vehicle Features New Gentex Technologies

Gentex Corporation, a leading supplier of connected-car and digital vision features for the global automotive industry, recently provided key technologies for the latest concept vehicle from automotive think tank and car design powerhouse Rinspeed, which for nearly 40 years has churned out designs intended to inspire the transportation industry and promote future mobility systems.

Rinspeed's latest, called Snap, would allow users to summon a vehicle-sized "skateboard" that would dock with personalized passenger "pods" and autonomously drive users to work, shopping, camping, or anywhere they wanted to go.

For Snap, Gentex provided unique biometric passenger authentication modules, vehicle-to-home automation control, and dimmable glass sensor shrouds.

- ▶ Gentex provides technology for the latest autonomous concept vehicle from Swiss car design powerhouse, Rinspeed
- ▶ Snap features Gentex's biometrics, home automation and dimmable glass technologies, underscoring their importance to future mobility systems
- ▶ Snap to debut next month at CES 2018 in Las Vegas and then feature at the Geneva International Motor Show in March



iris
SCAN ID
✓



The Snap concept vehicle consists of two parts: an autonomously driven chassis, or “skateboard,” that docks with various customizable passenger safety cells, or “pods.” Separating the vehicle into two components allows the autonomous skateboard to operate 24/7, serving multiple customers throughout the day. The chassis are replaced as mechanical components wear out and IT components reach obsolescence.

The more durable and versatile passenger pods would live on and be personalized for commuting, working, deliveries, and more. They would be useful even when stationary, serving as mobile offices, campers, or secondary living spaces.

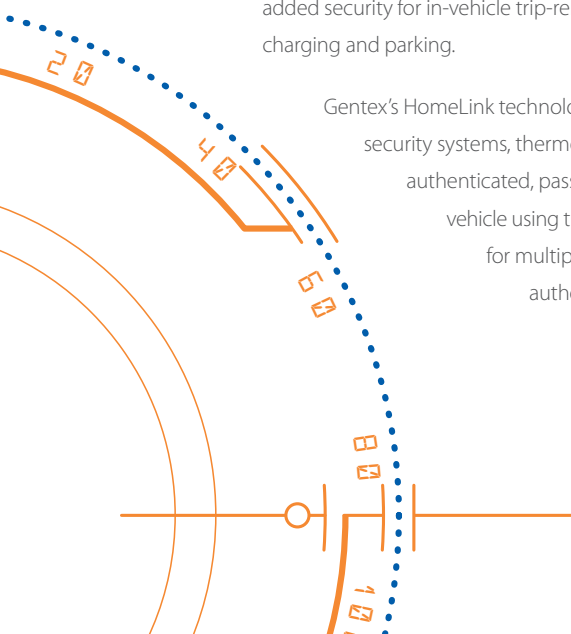
The Snap concept is designed to help reduce traffic congestion, enhance overall vehicle lifecycles, and provide a more environmentally friendly mobility model.

For Snap, Gentex developed a vehicle-based biometric ID module that authenticates the passengers and delivers customized security, comfort and convenience features. The system consists of a small module that houses near-infrared emitters, an iris-scanning camera, and system-level intelligence.

With the passenger identified, the biometric system would allow the vehicle to operate and enable personalization by automatically adjusting seat position, HVAC controls, music favorites, GPS locations, and other cabin amenities, according to user-determined presets. The biometric system could also sanction safe, secure access to a host of cloud-based, connected-vehicle services. For instance, an authenticated iris scan could grant the passenger access to work files and virtual meetings, allow for secure banking transactions, and provide added security for in-vehicle trip-related purchases like tolls, vehicle charging and parking.



Gentex’s HomeLink technology, which uses RF and wireless cloud-based connectivity to operate gates, garage doors, security systems, thermostats, home lighting and more, could also be controlled by the biometrics system. Once authenticated, passengers would be able to control all their home automation devices from within the Snap vehicle using the HomeLink Connect app. The biometrics system would provide security and convenience for multiple passengers by activating the unique home automation presets of the vehicle’s various authorized users.





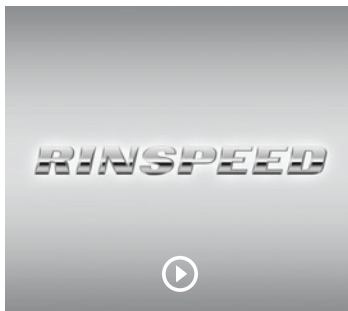
Today's vehicles are increasingly being outfitted with sensors and cameras for various ADAS features. Autonomous vehicles like Snap will be equipped with cameras, radar, LIDAR and a host of other safety-related sensor systems. It can be a challenge to integrate these into a vehicle in a manner that optimizes performance while maintaining a clean design aesthetic. Gentex dimmable glass panels, or sensor shrouds, darken on-demand or automatically according to sensor function. On Snap, they work to conceal and optimize the operation of forward-facing cameras, optical systems, communication components, and the autonomous sensor farm.

Snap will debut at the upcoming CES (the Consumer Electronics Show), the world's gathering place for all who thrive on the business of consumer technology. Owned and produced by the Consumer Technology Association™, it has served as the proving ground for innovators and breakthrough technologies for over 50 years. This year's show runs January 9 – 12 in Las Vegas, Nevada.

Founded in 1974, Gentex Corporation (NASDAQ: GNTX) is a supplier of automatic-dimming rearview mirrors and electronics to the automotive industry, dimmable aircraft windows for aviation markets, and fire protection products to the fire protection market. Visit the company website at www.gentex.com.



Official Rinspeed partner list and media materials:
www.rinspeed.eu/en/



Rinspeed concept car history:
www.rinspeed.eu/en/Concept-Cars



See Snap in action:
<https://youtu.be/7MBMCgIpsiw>