



PRESS RELEASE

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ENHANCE PASSENGERS EXPERIENCES IN TRAINS WITH GAUZY' S SMART GLASS AND AMBIENCE MANAGEMENT SOLUTIONS!

InnoTrans, 20-23 September, Berlin, Germany
at Vision Systems, a Gauzy company's, stand
Hall 1.1 stand 560

Gauzy will showcase its newest smart glass applications for railway OEMs and Tier 1 suppliers, including the most forward-facing solutions for **shading, privacy, transparent displays, infotainment, and personalized individual passenger spaces in new and existing trains.**

On the strength of the company's expertise in smart glass windows (electronically dimmable windows) across the automotive industry including the aeronautic and marine market segments, Gauzy will present different LCG® (Light Control Glass) solutions adapted to the rail market , providing a high level of optical quality and reliability.

Gauzy is the only material science company to develop, manufacture, and process two of three active smart glass light control technologies, PDLC (polymer dispersed liquid crystal) and SPD (suspended particle device).

Both technologies, which can be integrated into railway compliant IGU (insulated glass unit) smart windows and partitions, allow glass or other transparent substrates to switch between opaque and transparent in milliseconds to **regulate visibility, daylight, glare and heat** for enhanced visual and thermal comfort, reduced cooling costs, and a greater sense of passenger autonomy and wellbeing.

PDLC and SPD technologies **block harmful UV light**, even in transparent state, to protect travelers and to prevent interior furnishing from fading. An integrated IR barrier further strengthens heat blockage for cooler interiors that lowers air conditioning consumption benefiting operators and increasing comfort for customers.

Controlling LCG® is easy with individual touch panels directly at each seat, through a centralized panel for coach-wide master control, or automatically with integrated light sensors for touchless control.

The electronics of the system are fully integrated, which facilitates installation in original equipment or retrofitting and **reduces maintenance time** (no moving parts, easy-cleaning).

Smart glass technologies by Gauzy are offered to OEM's and Tier 1 suppliers to meet versatile customer requirements.

Gauzy's Vision Systems will present at InnoTrans 2022:

- PDLC LCG®: offers unobstructed views when transparent or light filled privacy with fully blocked views when trains are passing through highly populated areas, or for staged experiences in tourist trains.
- SPD LCG®: allows users to instantly tint windows with up to 99% light blocking for customized shading with a view. This eliminates the need for light blocking roller shades that limit scenic views, are hard to sanitize, and require regular maintenance, while lacking a minimalist and modern aesthetic. When in its darkest state, SPD also adds another layer of privacy.
- Combined PDLC and SPD LCG®: when the two technologies are combined, and paired with projection, they create a two-way display that can turn transparent for time and location updates, ambiance images, and commercial ad space for additional revenue or full transparency.
- Ambiance Management Solution: a dimmable window paired with a mood lighting system controlled by users or a centralized and synchronized control panel for a personalized experience depending on time of day, weather conditions, or feelings.
- Smart-Vision: a compact system that replaces rearview mirrors with high-definition cameras and interior displays, already chosen by over 40 operators, and by many bus, coach and truck OEMs, with more than 5000 vehicles equipped! The solution offers optimized visibility and enhanced ergonomics for greater driving comfort and safety.



[Download the image](#) ©Vision Systems



About Vision Systems

Based near Lyon, France, with a production and sales unit in Florida, USA, and trade offices in Singapore, Dubai and Montreal, Vision Systems is a tier-one system supplier that designs, produces and markets complete and bespoke solutions for the aeronautic, land transport and marine industries. The company's genuine expertise in shading systems including dimmable solutions places it today as the world leader in this area.

Vision Systems' division Safety Tech is one of the world leaders in Advanced Driver Assistance Systems, developing customized solutions for the coach, bus, truck and motorhome markets.

Vision Systems combines complementary skills in electronics, mechanics and composite to provide ever more innovative solutions for cost reduction, heightened safety and improved comfort.

Vision Systems was acquired by Gauzy Ltd., a world leader in material science and nanotechnology, in February 2022.

About Gauzy Ltd.

Gauzy Ltd. is a world leading material science company, focused on the research, development, manufacturing, and marketing of vision and light control technologies that support safe, sustainable, comfortable, and agile user experiences across various industries. Headquartered in Tel Aviv, the company has additional subsidiaries and entities based in Germany, France, The United States, China, and Dubai, supporting research & development, manufacturing, operations, and sales. Gauzy serves leading brands in over 50 countries through direct fulfillment and a certified and trained distribution channel. For more news and information about Gauzy, please visit www.gauzy.com, and our social media pages: Facebook, LinkedIn, Instagram, YouTube.

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