

## High-end 3D+: In-car audio redefined

- Revolutionary 3D sound experience
- Fully digital, modular concept
- From entry level to high-end 3D+ with a single system platform
- Significant weight-savings, combined with lower material and development costs
- Expandable through a series of audio functions

Delbrück (Germany), May 18<sup>th</sup>, 2017: paragon AG's new 3D+ in-car audio system, with its unique use of distributed modules and fully digital data transmission of audio signals, offers a wide range of astonishing innovations.

Today's in-car audio systems tend to be configured according to the same common template, with a central amplifier generating considerable amounts of heat and speakers connected via fault-prone analog wires.

In contrast to this, paragon's approach uses decentralized and networked amplifier modules which also include the required signal processing. By integrating these modules into the speakers, the paragon R&D staff in co-operation with high-end specialists Audionet developed levels of speaker compensation and equalization never previously achieved. As a result, significant improvements in the quality of in-car music

reproduction can clearly be experienced. As a further benefit for the car industry, this approach reduces system weight, thereby cutting fuel consumption and delivering considerable savings in terms of material costs.

The concept allows virtually all models of vehicles to be equipped with the same modules. Any configuration ranging right up to the maximum possible high-end system can be realized, thus reducing car manufacturers' development and approval effort.

Enhanced audio features such as in-car communication (ICC) or engine sound synthesis (ESS) can be added simply by configuring the corresponding software module.

"The 3D+ audio system allows paragon to expand into yet another innovative segment of the automotive industry. The reduction to a single system platform enables us to provide significant savings in terms of both weight and material costs to our customers, which in turn simplifies the corresponding cycles of product development and approval," says Klaus Dieter Frers, paragon's board chairman. "This breakthrough concept revolutionizes the in-vehicle listening experience. We therefore aim at offering nothing less than the world's best audio system to the automotive market."

+++ Press release +++

### **Company portrait**

paragon AG, a regulated-market (Prime Standard) company (ISIN DE0005558696) quoted by Deutsche Börse AG (the German Stock Exchange) in Frankfurt am Main, develops, produces and markets innovative solutions in the area of automotive electronics, electric mobility and vehicle-body kinematics. The company's portfolio of electronic items directly supplied to the automotive industry includes innovative air-quality sensors, high-end acoustic systems and the very latest in dashboard-display instruments. The corresponding corporate group, which includes the Voltabox subsidiaries, is active in the fast-growing electric mobility sector, with a range of lithium-ion battery systems developed in-house. paragon's developments in the mechanical segment meanwhile include movable body components such as extendible spoilers. The headquarters of paragon AG in Delbrück (in the German region of North Rhine-Westphalia) operates alongside sites and subsidiaries elsewhere in Germany, in Suhl (Thuringia), Nuremberg (Bavaria), St. Georgen (Baden-Württemberg) and Bexbach (Saarland); along with others in Kunshan (China) and Austin (Texas, USA).

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