

6TH DVN STUDY: ADB AND EXTENSION TO LIGHT PROJECTION



Available from November 2023.
Price: €5,000

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On November 1st, DVN will release its 6th Study:

ADB AND EXTENSION TO LIGHT PROJECTION

For the first time, a DVN study will give a view to the future of vehicle lighting concerning ADB and its extension to light projection, with numbers and figures based on market data from interviews with automakers, tier-1 and -2 suppliers, scientific institutes, and of course the expertise of DVN's in-house experts.

Study Summary

The study will describe in detail the different competing technologies: from mechanical solutions to few segments, rows of many LEDs; microLEDs, and pixel systems. It will evaluate the various performance factors, weight, and power consumption. The study will show legal aspects in the different markets and covers the ability of road projection of these different systems, with their integration in the future electronics architecture and ADAS.

What are the benefits of the study?

The DVN Study is an independent market research project synthesizing information from many sources, interviews, and expert knowledge of DVN and DVN partners. It will bring you well-founded forecasts of revenue and volume for the different ADB systems, to help to make strategic decisions on investments and product development focal points—a great asset for shrewd business planning by suppliers and automakers, who will get a view of the market and the future perspectives from an external and neutral position.

Who is the study for?

This study is an additional source of information for the business plan of all tier 1 and tier 2 companies. OEMs will get a view of the market from an external and neutral position.



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Executive Summary

• The 10 Takeaways

History of ADB

• From Mechanical systems in 2010 to MicroLED system in 2023

ADB and Light Projection what for?

• How to keep the perception of the high beam permanent

The 4 technologies to make ADB: S-Matrix, M-Matrix, HD-Matrix, UHD-Matrix

- Definition of the 4 types of ADB
- Optical concept
- Use Cases and Functionality of the different ADB systems
- Driver benefits Performances, Added value

Integration challenges

• Packaging, Weight, Power consumption

Extra Costs and evolution

- Current Cost evaluation
- Future Cost evolution

Electronics & SW

Evolutions with new car architecture

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- Regulation impact on ADB in the fifferent markets
- Case of US market
- UNECE regulation

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Synthesis