

LiDAR for Automotive 2025

Patent Landscape Analysis – December 2025

The global IP battlefield is heating up: who are the key players, and which technologies will shape the future of LiDAR for automotive?

REPORT OUTLINE

- LiDAR for Automotive - Patent Landscape Analysis
- December 2025
- PDF >160 slides
- Excel file >36,200 patent families
- Reference: KM25004
- 4,990 EUR for a multi-user license



KEY FEATURES

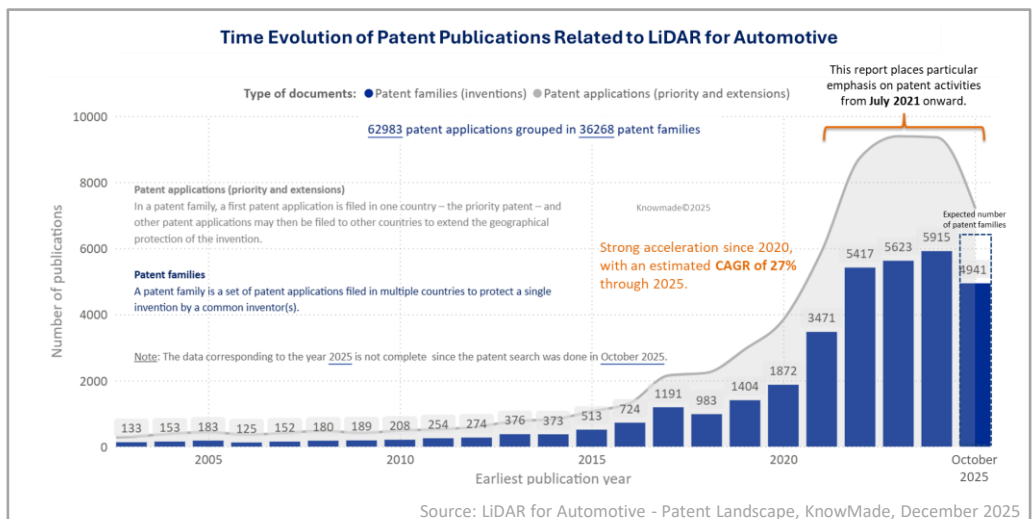
- **Global patenting trends**, including time evolution of patent publications, countries of patent filings, etc.
- **Main patent assignees and IP newcomers** in the different segments.
- **Key players' IP position** and the relative **strength** of their patent portfolio.
- **IP leadership evolution** of patent assigns 2021 vs 2025
- **IP ecosystems** including co-owned patents including group-internal and external collaboration, etc.
- Patents categorized by **18 technological segments** (ToF, FMCW, phase-shift, MEMS, hybrid, OPA, flash, metasurface, LiDAR-On-Chip, 1550 nm, VCSEL, SPAD/SiPM, APD, packaging, calibration, Anti-interference, AI, fusion)
- **IP profile of 30 key players** (patent portfolio overview, technical coverage, geographical coverage, notable granted and pending patents, etc.)
- **Excel database** containing all patents analyzed in the report, including **patent segmentations** and hyperlinks to an **updated online database**.

RELATED REPORTS & MONITORS

- [Imaging Radar for Autonomous Systems Patent Landscape Analysis 2025](#)
- [LiDAR for Automotive Patent Landscape 2022](#)

A Rapidly Expanding Global LiDAR IP Landscape

With centimeter-level accuracy and consistent performance across varied lighting conditions, LiDAR is becoming a core sensing modality for ADAS, L2-L4 autonomous driving, robotaxis and a growing range of robotics and infrastructure applications. Its rapidly expanding patent activity reflects this shift, marking LiDAR's transition from an experimental technology to a primary perception sensor in one of the most competitive IP landscapes in advanced mobility. As of October 2025, the **global LiDAR patent landscape for automotive applications** includes more than **36,200 patent families** and over **62,900 individual patents**, with strong growth across FMCW LiDAR, solid-state architectures, photonic integration, advanced beam steering and AI-driven perception. Over 24,300 patent families were filed since July 2021 alone, tripling KnowMade's previous dataset and signalling the move from early research to full-scale industrialization. Between 2020 and 2025, LiDAR-related patenting increased at an estimated **CAGR of 27%**, highlighting the explosive pace of innovation across the sector.



Global IP Trends and Strategic Players

A major structural shift in the LiDAR patent landscape is the rapid and sustained rise of **China** as the world's largest source of LiDAR-related intellectual property. By 2025, China accounts for around **40% of global LiDAR patent publications**, surpassing the **United States** in both volume and growth rate. This trend is accompanied by a broad diversification of contributors, including LiDAR pure players, Tier-1 suppliers, automotive OEMs, autonomous-driving developers, semiconductor companies and research institutes. Their collective IP activity reflects the growing maturity of LiDAR technologies and the increasingly strategic alignment between patent portfolios and long-term technology roadmaps.

Chinese companies such as **Hesai**, **RoboSense**, **Huawei Yinwang**, **VanJee**, **Zvision**, **Benewake** and **Leishen Intelligent** are active across all major LiDAR technology domains and demonstrate significant momentum from 2021 to 2025. In parallel, the **United States** maintains a central role driven by **General Motors**, **Alphabet-Waymo**, **Aurora**, **Ouster**, **Seyond** and **Aeva**, while **Europe** contributes substantial activity through its automotive and photonics sectors, led by **Bosch**, **Continental**, **Valeo** and several OEMs focusing on components, packaging, calibration and vehicle-grade LiDAR integration. **Japan** and **South Korea** remain steady contributors through **Sony**, **Denso**, **Toyota**, **Samsung**, **Infoworks** and **Hyundai-Kia**, illustrating the global distribution of innovation efforts.

This geographic rebalancing highlights the shift from a historically U.S.- and Europe-led patent landscape toward one increasingly shaped by China's expanding photonics and semiconductor ecosystem.

Evolution of IP Leadership 2021 vs 2025

Between 2021 and 2025, LiDAR IP leadership evolved significantly as competition intensified across technologies, regions and industry segments. While the ecosystem is structured around four major categories: **LiDAR pure players**, **Tier-1 suppliers**, **car makers** and **autonomous-driving companies**, the report provides a deeper, fine-grained examination within each group, revealing how leadership positions, technology strengths and IP portfolios have shifted between 2021 and 2025 as competition intensified. In particular, LiDAR pure players show a clear acceleration in IP activity over the past few years, with many strengthening their portfolios at a pace unmatched in 2021. Detailed analysis reveals that although Tier-1 suppliers held more competitive and mature portfolios in 2021, the landscape has shifted: by 2025, multiple pure players demonstrate the scale, quality and technological depth required to position themselves as **emerging IP leaders** in several high-growth LiDAR domains. The report also identifies a growing cohort of **IP newcomers** including fast-moving pure players, autonomous-driving companies and car makers who's rapidly expanding portfolios signal their rising strategic influence. Together, these shifts illustrate how leadership is being redistributed across the LiDAR ecosystem, making this one of the most dynamic and contested IP environments in advanced sensing.

Clear Segmentation of Innovation Across LiDAR Technologies

The report reveals strong innovation activity across all major LiDAR technology layers. Patents are concentrated in five key areas:

- **Core Ranging & Imaging Principles:** Pulsed ToF, FMCW and phase-shift ranging, along with MEMS, hybrid scanning, OPA and flash beam-steering architectures; advanced beam steering technologies as metasurface and nanophotonic approaches, as well as photonic-integrated LiDAR.

- **Optical & Photonic Components:** 1550 nm laser sources, VCSEL arrays, SPAD/SIPM detectors and APDs.
- **System & Algorithmic Intelligence:** Solid-state packaging, calibration, interference mitigation, AI and multi-sensor fusion.

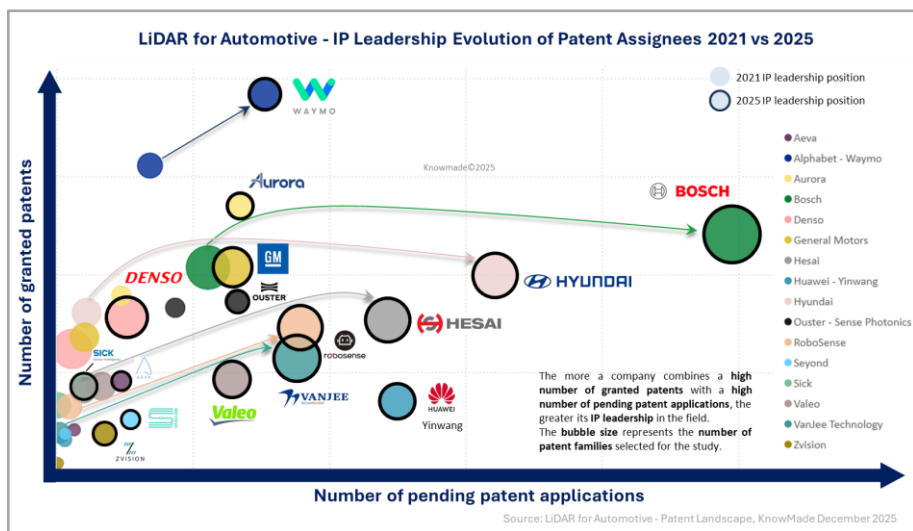
In the present report, each segment is analyzed through a consistent framework that includes a segment definition, a patent portfolio overview, main assignees and representative notable patents.

In-Depth IP Profiles Across Key Industry Segments

This report delivers a structured and data-driven IP profile analysis of **30 influential LiDAR patent assignees**, selected based on their IP leadership and recent activity from 2021 to 2025. The analysis covers the full spectrum of ecosystem actors, including **LiDAR pure players** (Hesai, RoboSense, Ouster/Sense Photonics, VanJee, Seyond, Zvision, Aeva, Leishen Intelligent, Sick, Benewake, SOSLAB, Oradar, Luminar, SiLC Technologies, Innoviz, MicroVision, Ibeo Automotive, Mobiltech, Infoworks, Blickfeld, OLEI, LiangDao, Aeye), **Tier-1 suppliers** (Bosch, Huawei-Yinwang, Valeo), **autonomous-driving companies** (Aurora, Alphabet-Waymo) and **car makers** (Hyundai, General Motors). For each company, the report provides a consistent assessment of IP leadership evolution, portfolio dynamics, geographic footprint, technical segmentation and recent patent activities.

Useful Excel patent database

This report includes an extensive **Excel database with** the 36,200+ patent families (inventions) analyzed in this study and a focus set of 24,300+ families added in the last four years, including **patent information** (publication numbers, assignees, dates, title, abstract, etc.), **hyperlinks to an updated online database** (original documents, legal status, etc.), and **structured classification by technological segments** (ToF, FMCW, phase-shift, MEMS, hybrid, OPA, flash, metasurface, LiDAR-On-Chip, 1550 nm, VCSEL, SPAD/SIPM, APD, packaging, calibration, Anti-interference, AI, fusion). This patent database supports advanced multi-criteria searches and provides direct access to updated records, enabling users to benchmark portfolios, monitor competitors, identify potential partners or acquisition targets and evaluate freedom-to-operate constraints.



Leading Patent Assignees by Technological Segment in LiDAR for Automotive

Core Ranging & Imaging Principles										Optical & Photonic Components				System & Algorithmic Intelligence					
FMCW	ToF	Phase shift	Flash	Hybrid	MEMS	OPA	LiDAR - On - Chip	Metasurface	1550 nm	APD	SPAD SIPM	VCSEL	AI	Anti-interference	Calibration	Fusion	Packaging		
Aeva Aurora Bosch Luminar RoboSense Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision	Bosch Luminar Sick Valeo Zvision
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Source: LiDAR for Automotive - Patent Landscape, KnowMade December 2025

Companies mentioned in the report (non-exhaustive)

Bosch, VanJee Technology, Hesai, RoboSense, Huawei - Yinwang, Hyundai, Idriverplus, Kia, General Motors, Dongfeng Motor, State Grid Corporation of China, Alphabet - Waymo, LG, Zvision, Valeo, FAW Group, Sony, Samsung, Amazon - Zoox, Mercedes-Benz, Toyota, Ford, BMW, Aurora, ICAN Technology, Leishen Intelligent System, Volkswagen, Glas Trust, Benewake, Geely - Volvo Cars, Continental, Baidu - Apollo, Denso, Changan Automobile, NIO, Honda, Aeva, Mando, SOSLAB, Ouster - Sense Photonics, ZF, Motional, Seyond, Minth Group - Ningbo Xintai, China Southern Power Grid, Panasonic, Zhidao Network Technology, Qualcomm, Sick, Mobiltech, Aptiv, BYD, INFINTIQ, ASEISING, DJI Technology, Innoviz, LiangDao, SiLC Technologies, Youdao Zhitu, Infoworks, TuSimple, Neolix, WeRide, CAIC, Intel, Jingwei Hirain, Fortsense, GAC Group, Koito Manufacturing, Leike Zhitu, Shanghai Westwell Technology, KETI - Korea Electronics Technology Institute, Ningbo Sunny Automotive Optech, UISEE, Voyah Automobile Technology, Pioneer, Chery Automobile, Dspace - Digital Signal Processing & Control Engineering, Luminar, Nvidia (W/ Deepmap), Tanway, & E Hub Armenia, Hefei Jijia Guangda Technology, Pony.AI, Shenzhen Camsense Technologies, STMicroelectronics, DJI Technology, Mercedes-Benz, Momo Zhixing Technology, Zhejiang Huaray Technology, Changzhou Xingyu Automotive Lighting Systems, Cowa Technology, Elmos Semiconductor, and more.

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ABOUT KNOWMADE

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Patent Landscape Analysis – December 2025

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1.1 The Contracting Parties undertake to observe the following general conditions when agreed by the Buyer and the Seller. Any additional, different, or conflicting terms and conditions in any other documents issued by the buyer at any time are hereby objected to by the seller, shall be wholly inapplicable to any sale made hereunder and shall not be binding in any way on the seller.

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