

P A R I S
INTERNATIONAL
M O T O R
S H O W

2018REPORT

— The 120th Paris Motorshow —

**MONDIAL
DE L'AUTO
PARIS**

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Hector Fratty's entire career has been in automotive lighting. From 1995 to 2006, he was Valeo Lighting's chief of R&D. His level of expertise in lighting gained him recognition as one of Valeo's five Master Experts. In 2008, he initiated the launch of his own company, Driving Vision News, which has become the automotive lighting and driver assistance industry's journal of record dedicated to keeping the community informed and communicating about the latest progress and developments.



Patrice Minol studied automotive design at the International School of Design he discovered the world of lighting during an internship at Valeo Vision and he's working at Jaguar design. His passion for photography combined with his design approach allowed him to work with DVN as a reporter during the autoshow.

Paris Motorshow

The 132nd DVN Report is a close focused look at the new and notable lights on the latest OEM innovation at the 2018 Paris auto show.

Its got more than 150 clear, colourful, sharp images.

PARIS2018

Here are the six main takeaway points we retain from our DVN walk of the show:

1.

Diversification of the light module : Squares, ovals, vertical or horizontal variety



2.

Use of strong signature to improve the brand DNA, especially with DLRs.



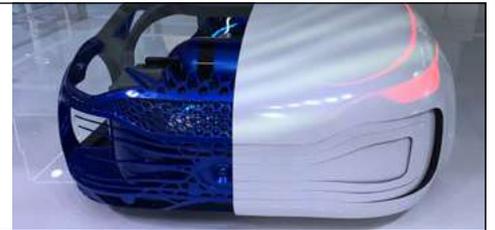
3.

Thinner front and rear lights, the trends are also to have wider lights.



4.

OEM are fighting for added values and new customers experience.



5.

The cars are closed to get animated signal for safety and communications.



6.

High level of interest, Despite the several 'auto-makers absence'.



The Paris International Motorshow

Despite the absence of many manufacturers such as Volkswagen, Volvo, Ford, Opel, Nissan, the Mondial de l'Automobile held from Tuesday 2 to Sunday 14 October 2018 recorded more than one million visits.

The rest of the world's auto show ahead of the IAA Frankfurt and its 810,000 visitors, as well as the Geneva Motor Show, and its 660,000 visitors. A test center was opened during the show, in the heart of Paris, Place de la Concorde, to try hybrid and electric cars.

The 132 nd DVN Report published is a close, focused look at the new and notable lights on the vehicles at the 2018 Paris auto show, to the near-total exclusion of other parts and views of the vehicle. It's got more than 150 clear, colourful, sharp images.

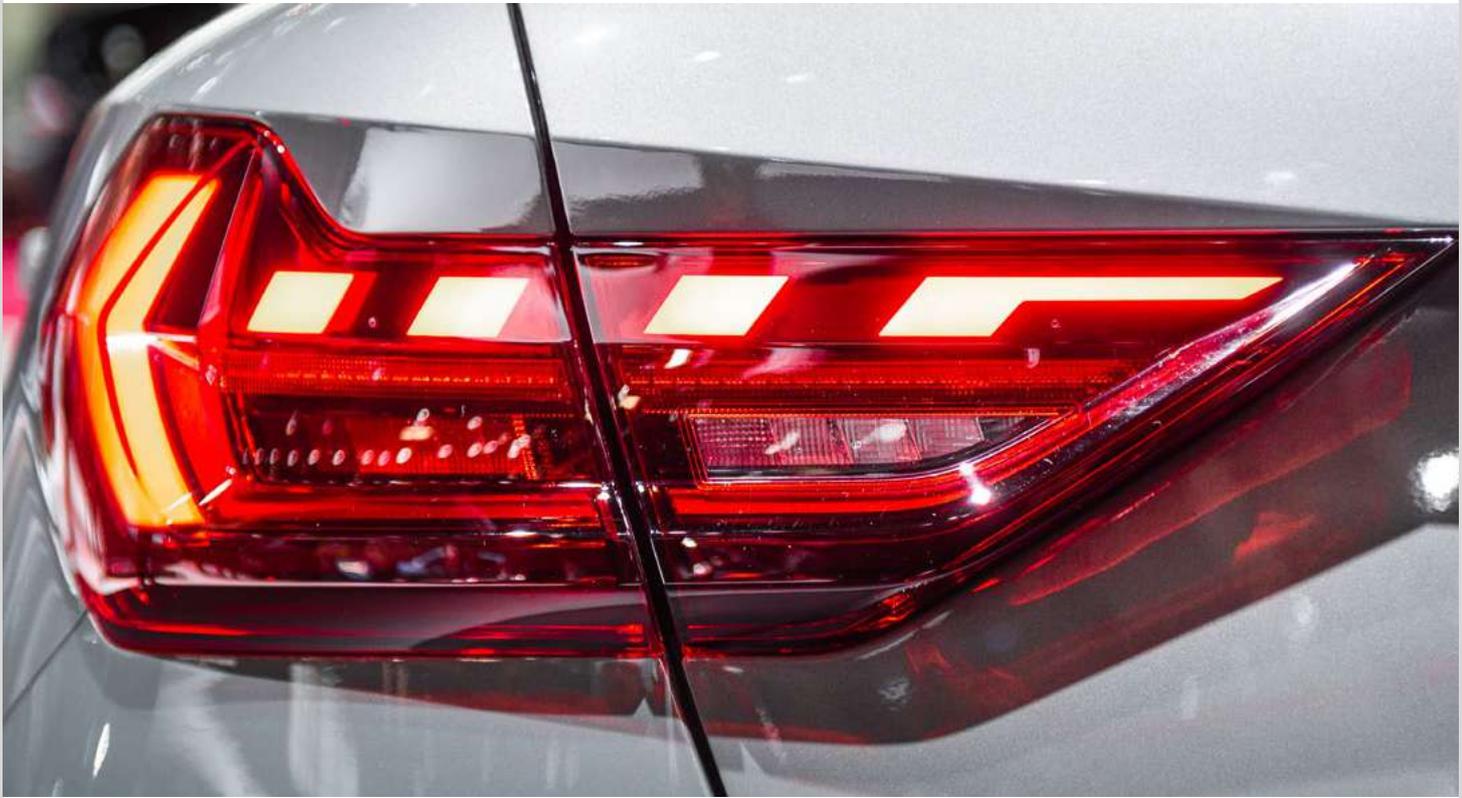
Audi A1

The second generation of Audi's A1 has front and back lights featuring a modern and sharp design. The distinctive daytime running light graphics of the optional full-LED lights echo the dynamic wing shapes from sailing, known as hydrofoils. The design of the shutters for the main light functions also draws inspiration from sailing. A low-set, concentrated look in conjunction with the small rhomboid segments in the top section of the headlamps provides a sporty appearance.



Audi A1

The dynamic segmentation motif also features in the rear lights to reinforce the instant recognisability of the A1 light graphics. It is encased in the striking 3D geometry of the lens. The seamless light pattern of the graphics in the dark constitutes a remarkable feature of the two-part rear lights. Making the car even more sporty by borrowing the legendary Audi Sport Quattro with the LED headlamps and LED rear lights with a dark-tinted paint.





Audi

Audi Q3

The new Q3 appears visually more self-confident; the headlamps are narrow and run inwards with their wedge shape. Three versions are offered, all with LED technology. The top-spec version is Matrix LED headlamps with adaptive high beam to intelligently illuminate the road.



Audi designers worked up an interesting connection between the front and rear lights by highlighting in the side view the symmetrical lighting graphics of the headlamps and rear lights. The tail lights are nicely integrated with the tailgate and create a strong signature from the back.



Audi TT Facelift

Twenty years after the launch of the original, the third generation TT gets a comprehensive update. The front lights show a double-blade graphic with a stripe.

Headlamps with LED or Matrix LED technology are optionally available. The dynamic turn signals are a visual highlight here.



At the rear, horizontal lines again underscore the width of the new TT with emphasis by the look of the rear lights; Audi are using similar designs for the front and rear lights to create a unique, familial visual signature across their whole range. There are optional OLED tail lights with a tt callout engraved inside the lights to give a stronger look to the back.





Audi

Audi e-Tron

With the introduction of the e-Tron Audi show the world their refinement in terms of technologies and electric production models. Identifying it as a fully electric model, the lower edge of the standard LED headlamps is styled with four horizontal struts, evincing charging status indicators. These create the E-tron's unique signature in the daytime running lights. For the first time this is integrated directly into the headlamps and the light is used as a signature design feature.





At the sculptural rear, one distinct element is the light strip connecting the LED rear lights, consistent with the brand's D-segment offerings including the A7, A8, and Q8. With their horizontal emphasis, the tail lights echo the graphics of the daytime running lights with a graphical representation of full battery charge.



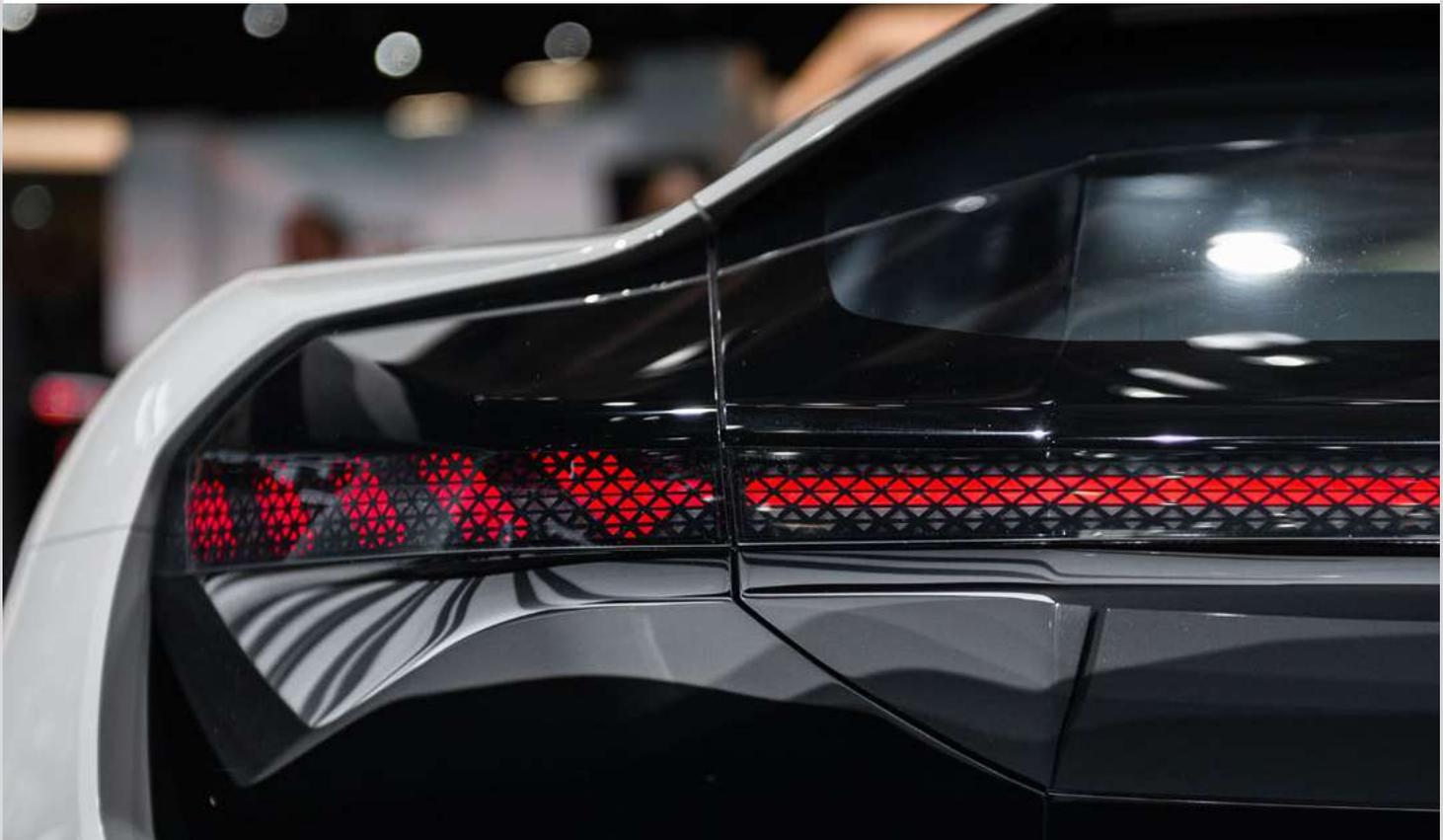


Audi

Audi Q3

The all-electric Audi PB18 e-tron presents a radical vision for the high-performance sports car of tomorrow. The front is dominated by the familiar hexagonal shape of the grille. Wide and flat light units with integrated digital matrix technology and laser high beam complete the face and expression of the next generation of Audi models.

The laser high-beam headlamp with its enormous range is especially emblematic of the transfer of expertise from motorsport: This technology made its debut in the Le Mans R18 racing car, where the maximum light output at speeds above 300 km/h offered a crucial safety advantage at night.



Audi PB-18 Concept

The rear of the car is a strong shooting-brake type design with integrated LED stripes in a piano-black surface. With this design the surfaces and lighting are now creating the effect of being fully integral.





BMW 3-Series

A technically sophisticated and visually smaller interpretation of the customary BMW twin headlamps gives the 3 a road-focused stare. Their familiar two-way split is further emphasised by an eye-catching notch in the front apron that rises up into the headlamp contour. Full-LED headlamps come as standard equipment, while the LED headlamps with extended features and U-shaped daytime running lights are available as an option.

Also optional: adaptive LED headlamps with BMW Laserlight, hexagonal DRL rings and blue, L-shaped elements in the inner and outer light chambers.



Surface contours transposed stylistically into the rear apron from the side skirts extend in an upwards movement via the rear lights up to the spoiler lip on the boot lid. Horizontal lines and the slim, stylishly darkened light units housing L-shaped taillights give the rear a wide and robust stance.

All of the light functions use LEDs. The T-shaped trim elements in the outer edges of the rear apron - which also include a light function in the form of reflectors - mimic the design of the front air intakes on cars with standard specification and on Sport Line and Luxury Line models.





BMW 8-Series

The new 8 coupé's standard-fitment LED headlamps are the slimmest of any BMW model to date. Both light tubes are used to generate the DRLs as well as the low and high beam, thereby creating the signature brand look at all times. BMW Laserlight—giving a high beam seeing range of about 600 metres—with variable road illumination and Selective Beam is optionally available. Blue accents inside the trademark twin headlamps call attention to the highly advanced lighting technology.



The slender all-LED rear light clusters that extend deep into the quarter panels add to this effect while also emphasising the car's width. The taillight bar lights up uniformly in BMW's familial L-shape.





BMW X5

The new X5 comes with LED headlamps as standard equipment; adaptive LED headlamps with Laserlight can be specified as an option. This system employs a BMW Laserlight spotlight with Selective Beam to optimise the high beam function, and as a result the range of the non-dazzling high beam has been increased to around 500 metres.

Blue x-shaped elements, which split up the hexagonal light chambers inside the familiar BMW twin headlamps, make a distinctive visual statement.



BMW X5

At the rear, too, all the lights feature LED technology. The three-dimensional design of their covers lends them a sculpted, technical edge. Diagonal accent lines give the rear a compact and brawny appearance.





BMW iX3 Concept

The BMW Group are pushing ahead with their electrification strategy by extending the reach of their all-electric mobility offering to the company's core brands.

The potent dynamic intent of the new BMW X3 is highlighted by a chunky kidney grille and foglamps featuring a hexagonal design for the first time on a BMW X model. At the rear, the light clusters whose 3D look in full-LED guise give them considerable visual impact.







BMW Z4

BMW's updated Z4 greets the world with new iconic headlamps, with the two light sources—LED, as standard equipment—positioned one above the other for the first time. The vertical design is cut off at the top by a diagonal accent strip with integral direction indicator.

Optional adaptive headlighting adds a matrix function for the glare-free high beam and cornering lights.



The horizontally-arranged tail lights in BMW's customary L-shape help to give the rear of the car a wide, road-hugging appearance. Their 3D shapes are cleverly resolved with the integration of the turn indicator.





DS3 Crossback

The DS 3 Crossback's spectacular technologies include matrix LED headlamps.

At the front, the DS wings form a finely chiselled setting for the sculpted, vertical lines of the emblematic grille. The DRLs with their pearl-like vertical LEDs and the tapered headlamps suggest a contemporary edge and performance.

DS say their Matrix LED Vision headlamp system delivers a level of safety and driving comfort never before seen in this class of vehicle. They also contribute to the car's unique visual identity.



DS Matrix LED Vision lighting comprises 3 LED modules for low beam and a matrix module for high beam. The beam emitted by each matrix module is divided into 15 independent segments which switch on and off gradually, segment by segment, based on the driving conditions detected by the camera above the windscreen.

As a result, drivers of DS3 Crossback cars can keep their main beams on without dazzling other road users.





Ferrari SP Monza

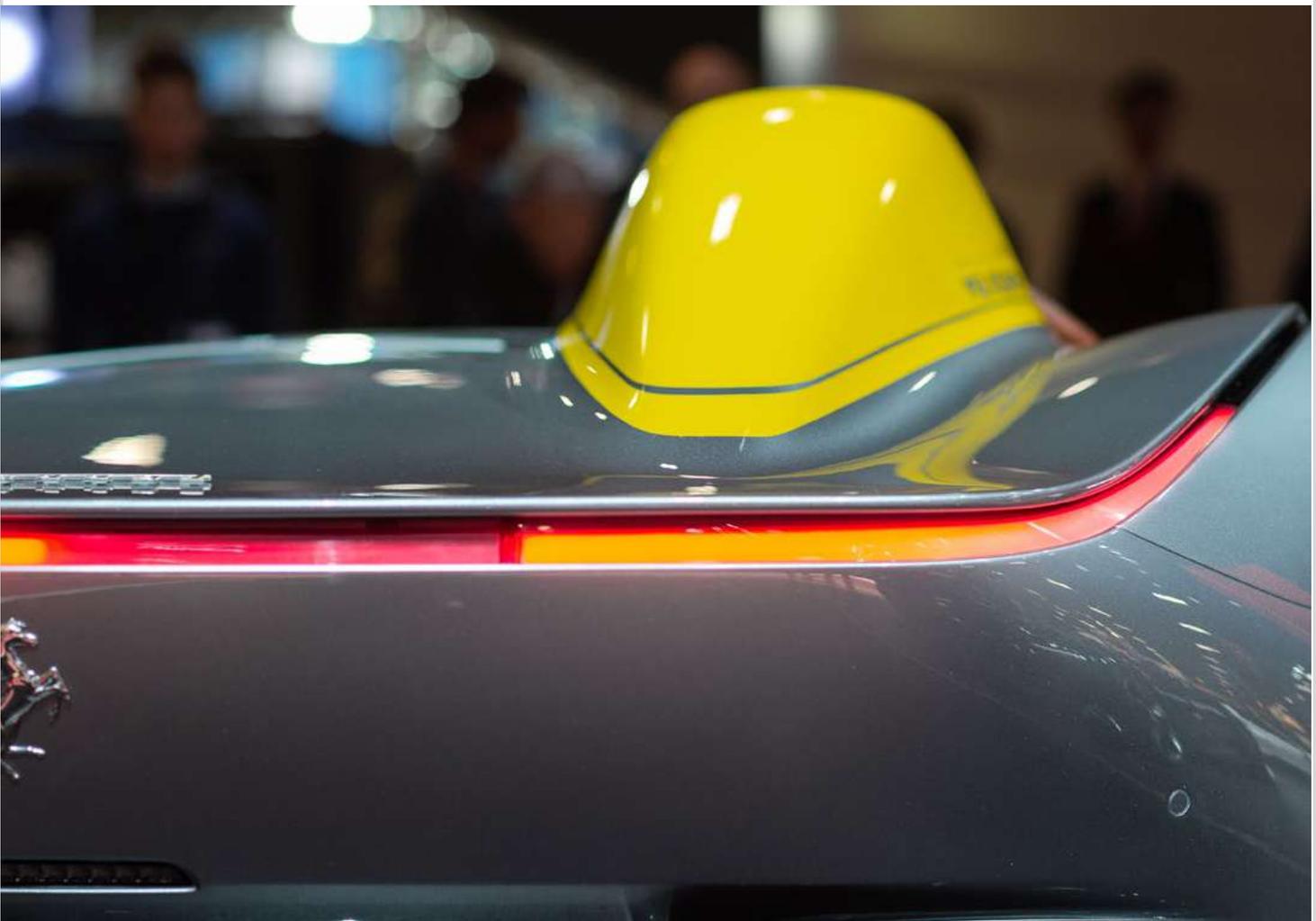
The Ferrari Monza SP1 and SP2 are inspired by barchettas of the 1950s which were driven to victory in international motor sport not just by official works team drivers from the Scuderia.

This iconic line-of-light theme appears in the headlamps and along the side air vents, creating a highly-distinctive, unique visual effect. The light modules are well integrated into the car's shape.



Ferrari SP Monza

In the back, Ferrari have created an extremely thin tail light which runs clear across the car while being nicely integrated in the shutline that runs round the car's full perimeter.



GAC GS5

Guangzhou Automobile Group revealed their new SUV during the Paris Motorshow. The front headlamps comprise three nicely-designed modules fully integrated in the chrome grille, with turn indicator stripes floating above and a nice pattern on the side of the light.





The rear light runs the full width of the car, composed of stripes and 3D shapes.



GAC Enverge Concept

The lighting is interesting on this Chinese concept, with blades running the full width on the front and the back, and lens-free headlamps having two modules integrated underneath the bonnet. The signature and SUV look is bolstered with lower DRLs, with a similar look also used in the back.







HONDA

Honda CRV

The new Honda CR-V, aside from offering a new hybrid version, also has a fresh and sophisticated exterior design bearing the latest Honda familial face with its signature headlamp graphic. The headlamps are integrated in a chrome grille.



The tail lights are vertical to give the SUV feeling and create a practical appearance. They run next to the tailgate and 2 stripes create the signature.





HYUNDAI

Hyundai i30 Fastback

Hyundai have extended their N range with the i30 Fastback N, their second high-performance model for the European market. The charismatic front bears full LED daytime running lights and headlamps with a rich-looking dark bezel.



The fastback's rearward taper evinces the shape of a teardrop. The generously arched rear spoiler is integrated into the tailgate and continues to the rear lights. A triangular rear fog lamp is integrated into the valence, centred between the dual twin tailspouts.





Kia ProCeed

The all-new Kia ProCeed brings the space and versatility of a tourer in a five-door shooting brake body. Like the Ceed, the front of the car is built round precise, linear shapes, with ice cube LED daytime running lights echoing the appearance of earlier Kia GT-line models.

The signature of the car is made with 4 LED dots placed around the modules.



The ProCeed name is spelled out in uppercase across the centre of the tailgate, beneath LED tail-lights which span the width of the tailgate, giving the car a unique light signature.





Kia ProCeed

The new third-generation Ceed was designed, developed, and engineered and is built in Europe. It features ice cube LED DRLs as standard, echoing the appearance of earlier Kia GT and GT Line models. In profile, the sharp, straight lines visually lengthen the bonnet and give the car a more upright stance.



At the rear, new LED tail lights give the Ceed greater visibility and recognition on the road.



Lexus LF-1 Limitless Concept

The idea of «sharper and more graceful» defines the top-of-the-line Lexus LC, and Lexus engineers have applied the same concept to the new RC. The signature three-LED headlamp design is underscored by separate LED running lights arrayed in the Lexus L motif.

The rear combination lamps share the 3-chamber style.



The automatic high beam system uses a camera to detect the lights of oncoming traffic and vehicles ahead, automatically switching the headlamps to low beam to avoid dazzling other drivers. This maximises the use of high-beam, improving nighttime illumination.

LEXUS RC WORLD PREMIERE





Mercedes B Class

The new B-Class has low-profile headlamps, with high-grade details and precise design. Standard equipment is H7 halogen bulbs and LED DRLs. Any of the available upgrade lighting packages comes with a DRL signature in the form of a double torch.

The optional Multibeam LED headlamps have an especially sporty look, and allow fast, electronically controlled adjustment of the headlamps to suit prevailing traffic conditions. This feature from the luxury class, which made its debut in the compact segment in the new A-Class, now produces striking looks and added safety also in the new B-Class.



At the back, the width of the vehicle is accentuated by two-part lamps, reflectors integrated in the bumper and a distinctive black bumper bottom section with diffuser look and chrome trim strip.





Mercedes C class

Now in its fifth year of production, the Mercedes-Benz C-Class is the most successful model series from Mercedes-Benz and boasts a wealth of enhancements. The design of the exterior and interior benefits from a stylish makeover.

The optionally available MULTIBEAM LED headlamps are new to the Mercedes-Benz C-Class. Each headlamp incorporates 84 individually controllable LEDs. These allow extremely quick and precise, electronically controlled adjustment of the headlamps to suit the current traffic situation.







Mercedes EQC

By virtue of its proportions, the EQC is classed as a crossover SUV.

For the first time, the black panel is bordered at the top by an optical fibre as a visual link between the torchlike daytime running lamps as a familial Mercedes feature. At night this creates an almost uninterrupted horizontal light band. The inner housings and tubes of the standard Multibeam LED headlamps are in high-gloss black. Contrasting colour highlights discreetly confirm the model's membership in the new EQ family: blue stripes on a black background, and a multibeam callout also in blue.



The reflectors are positioned separately in the bumper. This allows a flatter, sporty layout for the rear lights. The multi-section chrome strip in the lower area of the bumper emphasises the visual breadth of the rear end.





Mercedes GLE

The new GLE has a wealth of innovations, and its striking appearance is emphasised by the distinctive headlamp design by day and night. The Ultra Range high beam of the Multibeam LED headlamps produces the maximum light intensity permitted by law; the high beam headlamps give 1 lux over a distance of more than 650 metres.



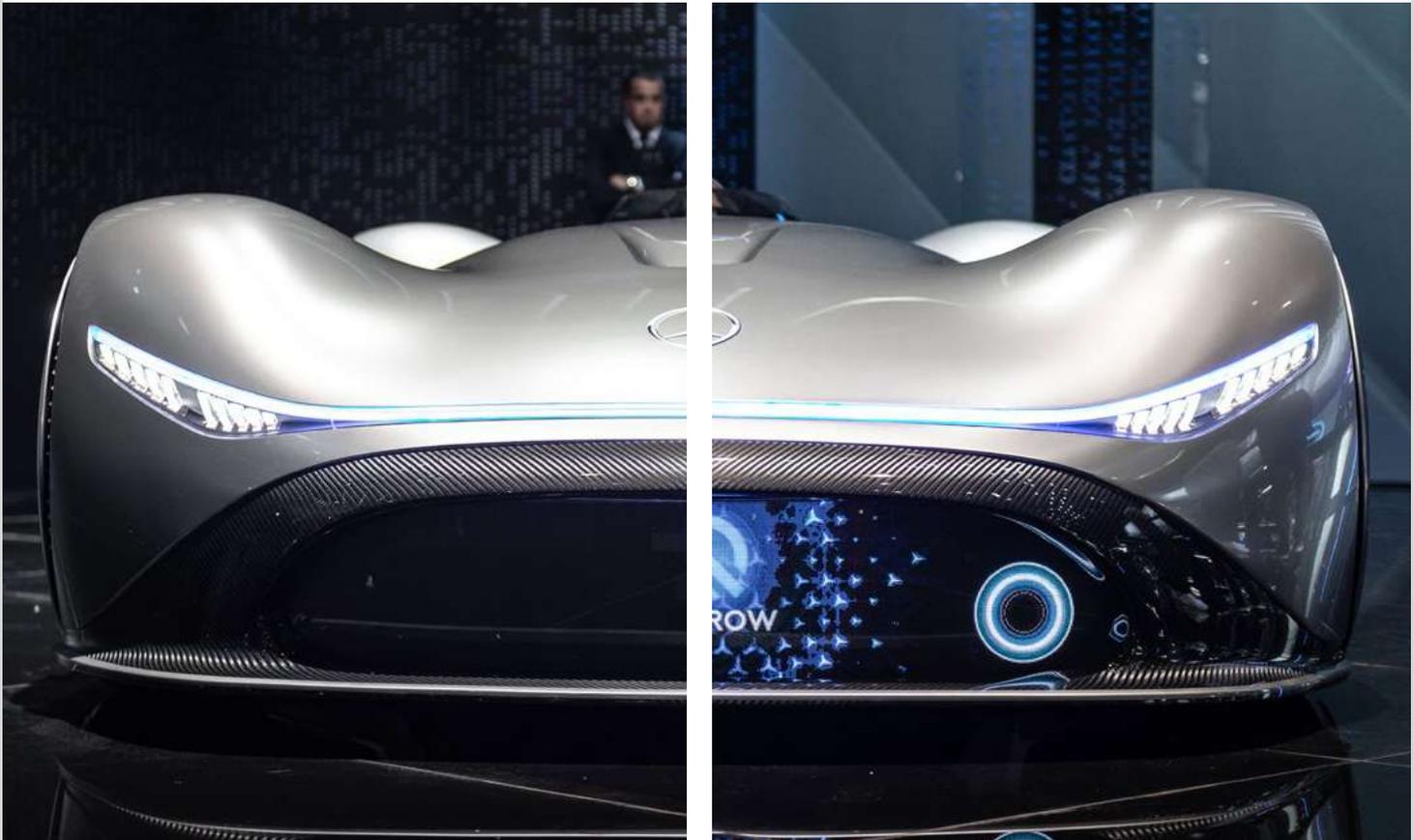




Mercedes EQC SilverArrow Concept

The EQ brand is shaped by the avant-garde, distinct aesthetic of Progressive Luxury.

The front trim is designed as a display to give messages and animate the light matrix, as well as the continuous lighting strip at the front. The side skirts also feature a lighting strip and the large, recessed EQ lettering in front of the rear wheels is illuminated blue as is characteristic of the brand.







Peugeot e-Legend Concept

This concept car is inspired by the Peugeot 504. At the front, the look of the vehicle is identifiable thanks to a visual signature with three claws and two double modules. The technical area is located under the projectors, it includes all the functions of driving assistance systems.



At the back, the iconic visual signature of the Peugeot range is also three claws and treated in a very technological way. The third brake light, located at the top of the rear window, covers its full width with a multi-blade assembly that reflects itself.



Porsche Macan Facelifted

The new Porsche Macan uses more design language coming from the inspiration of the 911, notably the 4-dots light signature in the front.

LED technology is incorporated as standard into the newly designed main headlamps, while the Porsche Dynamic Light System Plus (PDLS Plus) option can be used to control light distribution adaptively.



The new Macan has a three-dimensional LED light panel on the rear of the vehicle. The stop lights with their four-point design are another instance of the brand's identity realised with light.

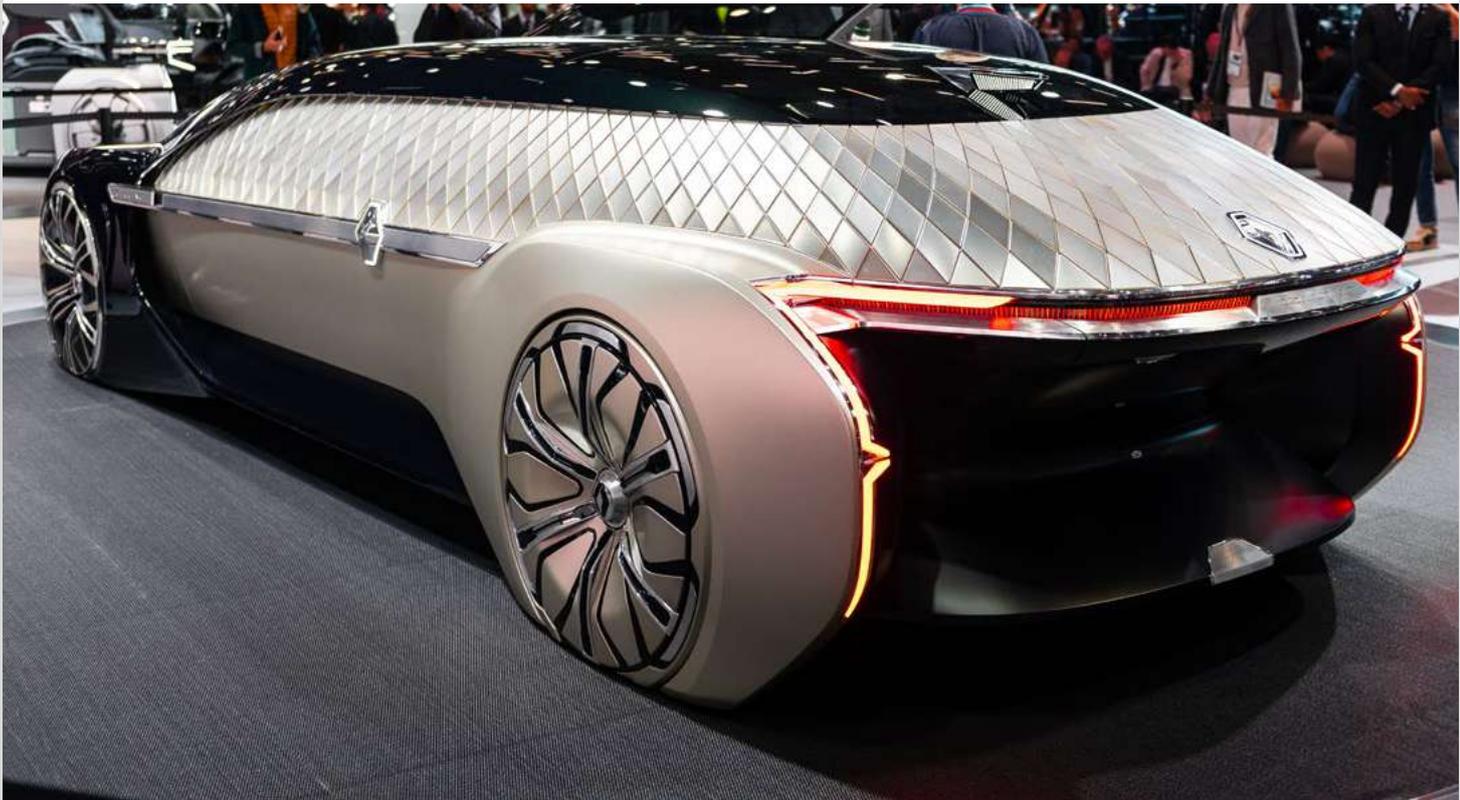




Renault EZ-Ultimo Concept

Renault's EZ-Ultimo is an all-electric, connected, autonomous robo-vehicle. It's meant to be offered as a service for a single trip, a circuit, or a day booking. Available on demand, the EZ-Ultimo is conceived as ideal for expanding premium offerings by travel companies and resorts, to enhance a special moment through a private trip in a city or a premium tourist experience.

The front of the car has fully vertical lighting integrated into the wheel arches. It creates a vision for the future of autonomous cars. The modules are lens-free, and cameras are integrated in the metal pieces for the sideview mirrors.



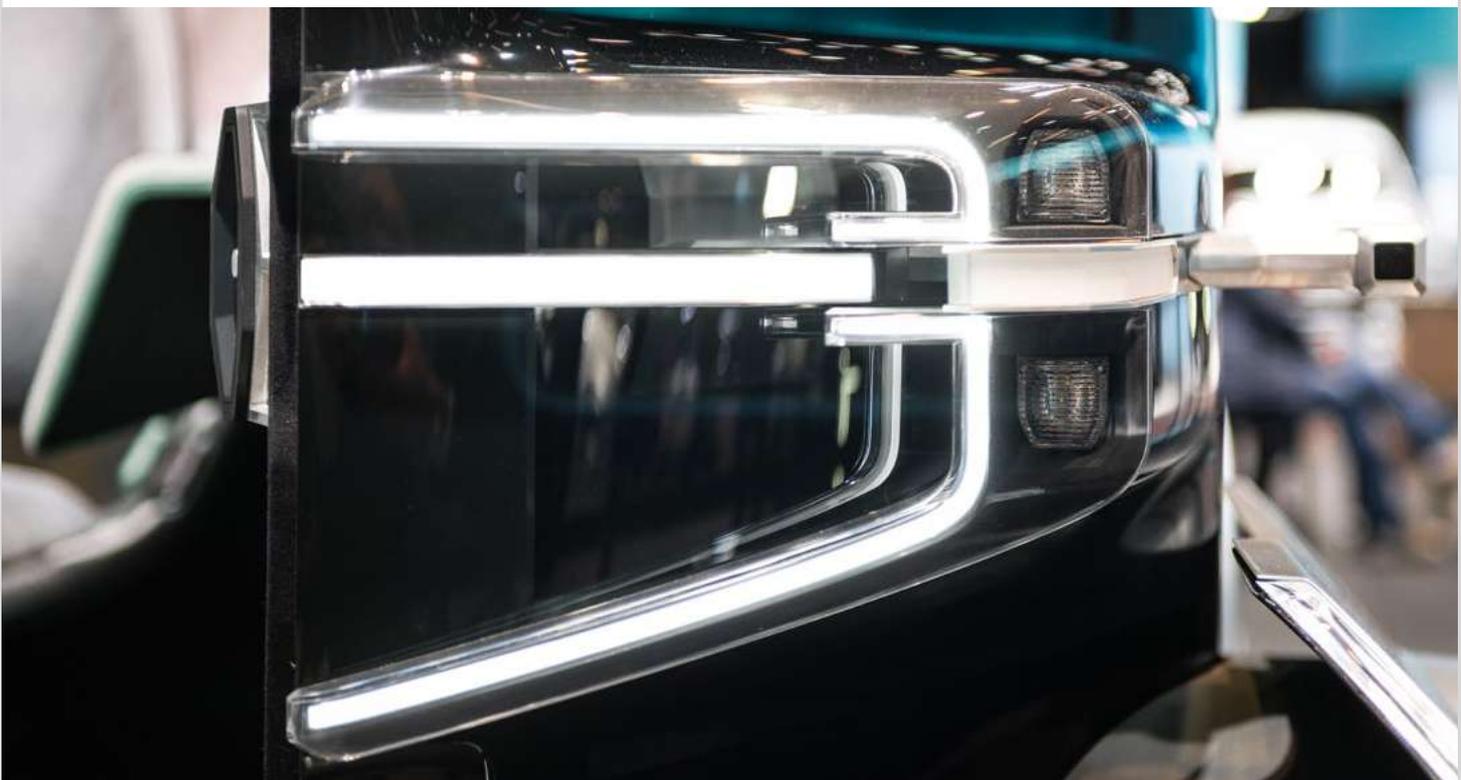
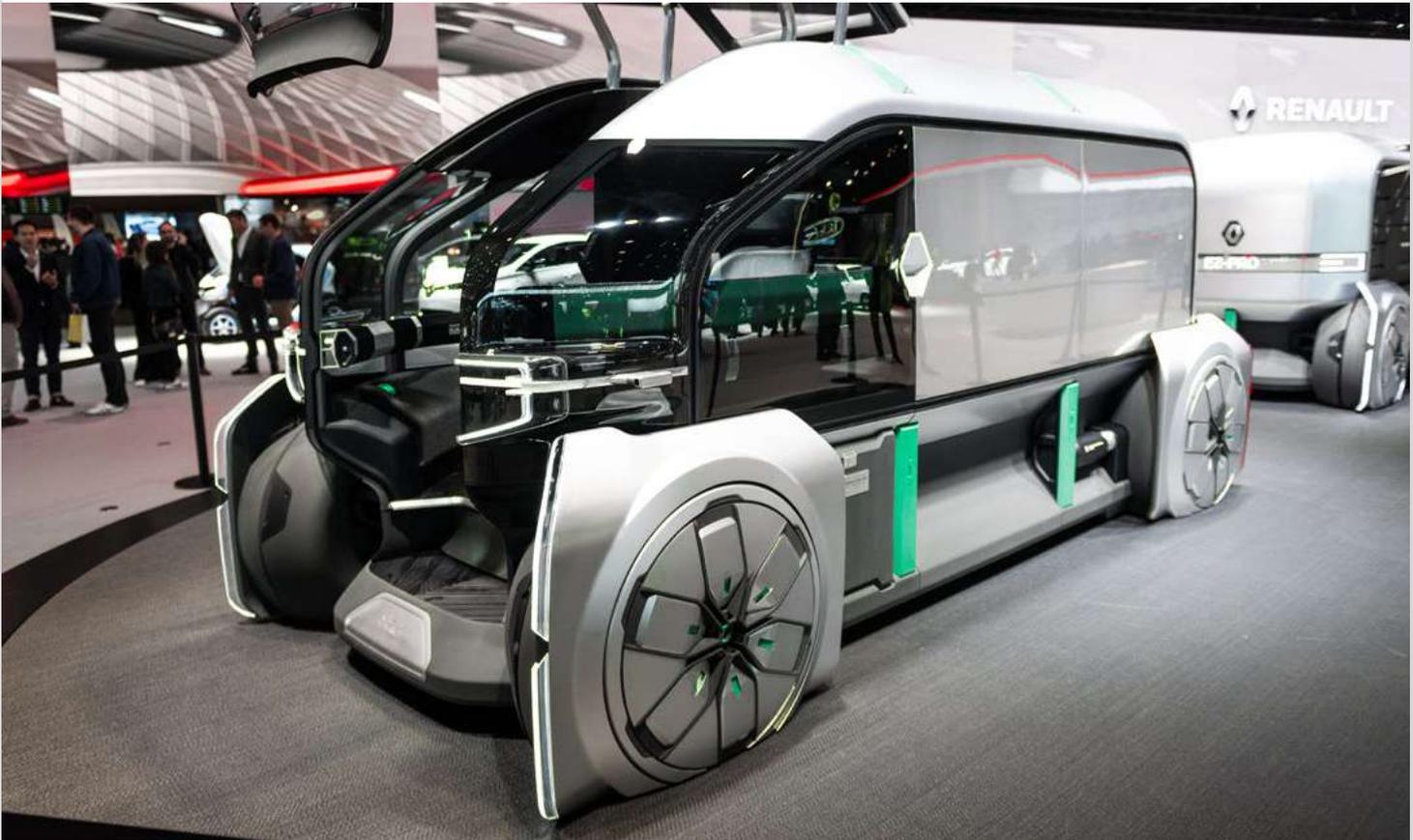




Renault EZ-Pro Concept

The EZ-Pro has been designed to offer an optimal delivery solution for professionals and consumers. Delivery recipients will be able to choose a convenient time and location to receive whatever it is they're awaiting.

An overall positive impact for urban life is proposed with lighting technologies comprising a panel of LEDs to deliver safety messages in the back and independently create a light signature.







Renault Kadjar Facelift

The new Renault Kadjar makes progress in all areas. While respecting traditional SUV design codes, it has a more attractive, stylish look, with dynamic contemporary lines.

At the front, it carries over the C-Shape light signature characteristic of the Renault range, strengthening it by integrating LED indicators into the daytime running lights. The fog lamps also gain LEDs with LED Pure Vision technology on Intens and higher trim levels—energy consumption is one-sixth that of halogen lamps. The fog lamps are now rectangular.



At the rear, the indicators, reversing lights, and rear fog lamps are also done in LED technology—and they're all now slimmer and built into the bumper for a more elegant finish.



SEAT

The Tarraco sits at the top of the brand's SUV range, above the Ateca and Arona, and mixes state-of-the-art technology, dynamic and agile handling, practicality and functionality with elegant, progressive design. The front design gives a hint to SEAT's new design language with a more prominent grille, giving greater presence and character. While the sharp full LED headlamps retain the company's triangular signature, they are set further into the body, giving a more focused appearance. Lighting technology forms an important aspect of the Tarraco. It uses 100% LED technology for the exterior and interior on the Xcellence and Style trims.



At the rear, the emphasis is on a low loading height, but with a lighting concept to express the width and practicality of the SUV. LEDs also power the dynamic rear indicators.





SKODA Vision RS Concept

This compact study demonstrates how Škoda imagine the future of their sporty RS models.

The headlamps consist of four glass stones appearing as though they are focusing on the street and, together with the fog lamps, they give the car a sporty character. The design work is here quite impressive with a cogent lighting design language for the future of the brand with a strong identity. Details include creating 5 thin stripes of light under each module.



The upper tail lights, looking as though made of bohemian crystal glass, resemble an L laid on its side. Together with the lower tail lights, they form a Škoda-typical C-shape at night. The rear of the car also bears an illuminated škoda lettering.



SMART

2018 Smart forease Concept «The smart forease is proof that smart thinks unconventionally. Its design is reduced and pure,» says Gorden Wagener, Chief Design Officer, Daimler AG.

The Smart design team decided to research a new lighting vision for the brand with 3 stripes for the front and a 3D rear light.







Toyota Camry

The Camry development team have brought forth a new signature design language that takes the car in a beautiful and futuristic new direction.

The front has LED headlamps with a projector for the low and high beam, and the turn indicators are integrated below with 3 stripes to create the signature of the car



A distinct crease extends from the slim multicolour LED taillights down to the bumper, looking sharp with perimeter lines to create the signature.





Toyota Corolla

The all-new Corolla features a dynamic design which differentiates between the hatchback and the wagon.

The headlamps create a connection with the grille, and the signature comprises two small J-Blade stripes. The Bi-Beam LED units move vertically and horizontally to provide optimal light output by analysing steering angle, vehicle speed, and the vehicle's longitudinal axis angle to adjust the lamps.



The all-LED taillamps feature a diffusing inner lens designed to highlight the hatchback's stout stance. The signature is a J as well with a stripe on the upper part.





Toyota RAV-4 Hy

Halogen or LED headlamp clusters incorporate LED daytime running lights to give the new compact SUV a readily identifiable frontal signature.



The rear lights have LED technology, giving the new RAV4 a high-tech light signature.



27 Car makers

Audi, Germany
 Bentley, UK
 BMW, Germany
 Changan Design Center, Italy
 FCA, USA
 Daimler, Germany
 Ford, Germany
 GM, USA
 Great Wall, China
 Harley-Davidson, USA
 Honda, Japan, USA
 Hyundai, Korea, Europe
 Jaguar-Land Rover, UK
 Mahindra Mahindra, India
 Nio, China
 Nissan, Japan, Europe, USA
 Opel, Germany
 Porsche, Germany
 PSA, France
 Renault, France
 SAIC TC UK
 Shanghai-Volkswagen, China
 Seat, Spain
 Skoda, Czech Republic
 Toyota, Japan, Europe, USA
 Volkswagen, Germany
 Volvo Cars, Sweden

19 Univ, labs, Consultants

Darmstadt university, Germany
 DEKRA laboratory, Nederland
 FEP, Franhauser, Germany
 Fudan university, China
 GranStudio, Italy
 Hannover Leibniz Univ.(HOT), Germ.
 Institut d'Optique Graduate School, Fr.
 Karlsruhe Lighting Institute, Germany
 LAB, France
 Light Sight Safety, Belgium
 Nuremberg university, Germany
 Pacific Insight, USA
 Parma university, Italy
 Rensselaer university, USA
 SLD Laser—formerly Soraalaser
 UMTRI, USA
 University of California, Santa Barbara
 YoungNam University, South Korea
 Mr Shunxing Wang, China

38 Set Maker

AL, Germany, USA
 Denso, Japan
 Elba, Romania
 Farba, Turkey
 FIEM Industries, India
 Flex'N'gate, USA
 Grote, USA
 Harbin Good Time, China
 Hella, Germany
 Hyundai IHL, Korea
 Ichikoh, Japan
 J.W. Speaker, USA
 Koito, Japan, Europe
 Lear, USA, Europe
 Lite-On, Taiwan
 Lumax, India
 Magna, USA, Austria
 Microlight Auto Parts, Taiwan
 Mobis, Korea
 NAL, USA
 Neolite ZKW, India
 Nordic Lights, Finland
 Odello, Germany
 Olsa, Italy
 Plastic Omnium, France
 Peterson, USA
 Rebo Lighting, China, Germany
 Shanghai Koito, China
 SL Corporation, Korea
 Stanley, Japan
 Truck-Lite, USA
 Valeo, France, Spain, China
 Varroc, Germany, Czech R.
 Wipac, UK
 Xingyu, China
 ZF-TRW
 ZKW, Austria
 Zodiac, France

60t Lighting Suppliers

A2Mac1, France
 AKKA, France, Germany
 AML Systems, France
 Anrui Opto, China
 Aspöck Systems, Germany
 Auer-Lighting, Germany
 Bicomoptics, China
 Bühler Alzenau, Germany
 Covestro, US, China, Europe
 Dajac, USA
 DBM Reflex, Canada
 Delvis, Germany
 Docter Optics, Germany
 Dominant Opto Tech., Malaysia
 EBW Electronics, USA
 EcoGlass, Czech Republic
 Elmos, Germany
 Enmech-Mektec, Germany
 Everlight Electronic, Taiwan, Germany
 GXC Coatings, Germany
 Holophane, France
 IAV, Germany, USA
 Infineon, Germany
 Innotec Group, USA
 Instrument Systems, Germany
 Jenoptik, Germany
 Keboda, China
 LG Innotek, South Korea
 LG Electronics, South Korea
 LMT, Germany, China
 Lumileds, Netherlands
 Maxell Joei Tech, Japan
 Merck, Germany
 Mentor Graphics, Europe, USA
 Mitsubishi Electric, Germany, Japan
 Myotek Industries, USA
 Nalux, Japan
 Nichia, Japan
 NXP, UK
 ON Semiconductor, Europe, Asia, USA
 Optis, France
 Optoflux, Germany
 Osram, Germany
 Oxyphen, Switzerland
 Panasonic, Japan
 Proper Group, USA
 Red Spot, USA
 Sabc, USA
 Samsung Electronics, Korea
 Sapphire, USA
 Sea Link International, USA
 Segula Technologies, France, Austria
 Seoul Semiconductor, Korea
 Soraalaser Diode, USA
 Synopsys, USA, Germany
 Texas Instruments, USA
 TQ Technology, Taiwan
 Vosla, Germany
 WL Gore, USA
 Zollner, Germany

List of Main DVN published Reports

2008-2015 Reports

Hella company profile
Audi company profile
AL company profile
DRL, brand signature
Valeo company profile
Koito company profile
China lighting market
The Wonderful World of Passenger Car lighting Regulations
Tier 2and3 contribution on automotive lighting
ZKW company profile
Simulations in automotive lighting
Mercedes-Benz profile
LED technologies in Automotive Head lighting
LEDs Thermo-Electrics
Interior Lighting
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ADB/Matrix Beam
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India Car Industry and Lighting Market
Advanced Motorcycle Lighting
IAA Auto Show 2015
ISAL 2015
Peterson Manufacturing
NAIAS Auto Show
Delhi Auto Expo 2016
DVN Delhi workshop
Geneva Auto Show 2016
Vision of lighting 2025-2030
DVN Tokyo workshop
Automotive lighting Regulations worldwide
New ADB technologies
Mondial Paris Auto Show
VISION Congress Vehicle Lighting in USA

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NAIAS Auto Show
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Geneva Auto Show 2016
Vision of lighting 2025-2030
DVN Tokyo workshop
Automotive lighting Regulations worldwide
New ADB technologies
Mondial Paris Auto Show
VISION Congress Vehicle Lighting in USA

2017 Reports

NAIAS autoshow
DVN Rochester workshop
Geneva autoshow
Simulation Tools
Shanghai autoshow
DVN Shanghai workshop
Interior Lighting
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IAA Frankfort autoshow
ISAL symposium
Jaguar Land Rover and lighting

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Vehicle Lighting in USA