

elmos<sup>3</sup>

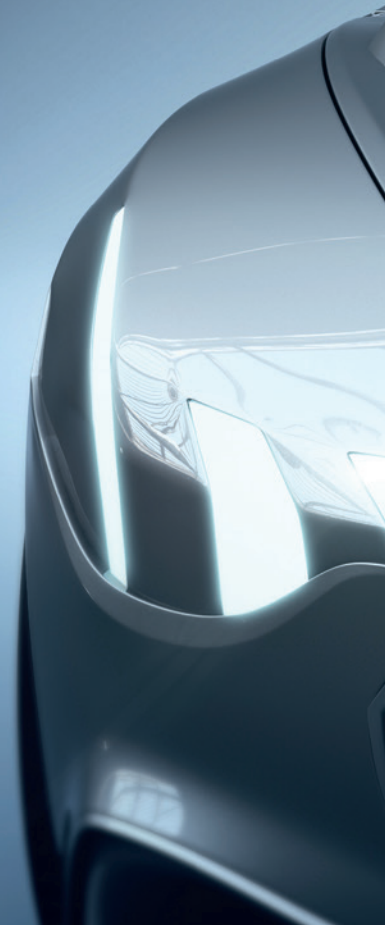


Innovation Matters

# WE ARE PART OF THE FUTURE CAR

Elmos develops, produces and markets semiconductors and sensors. For over 30 years, Elmos innovations have been bringing new functions to life and making mobility safer, more comfortable and more energy efficient. Our components, so-called integrated circuits (ICs), offer the right solutions to meet the challenges of the global megatrends:

- Autonomous driving
- Electromobility/CO<sub>2</sub> reduction
- Safety, connectivity and comfort



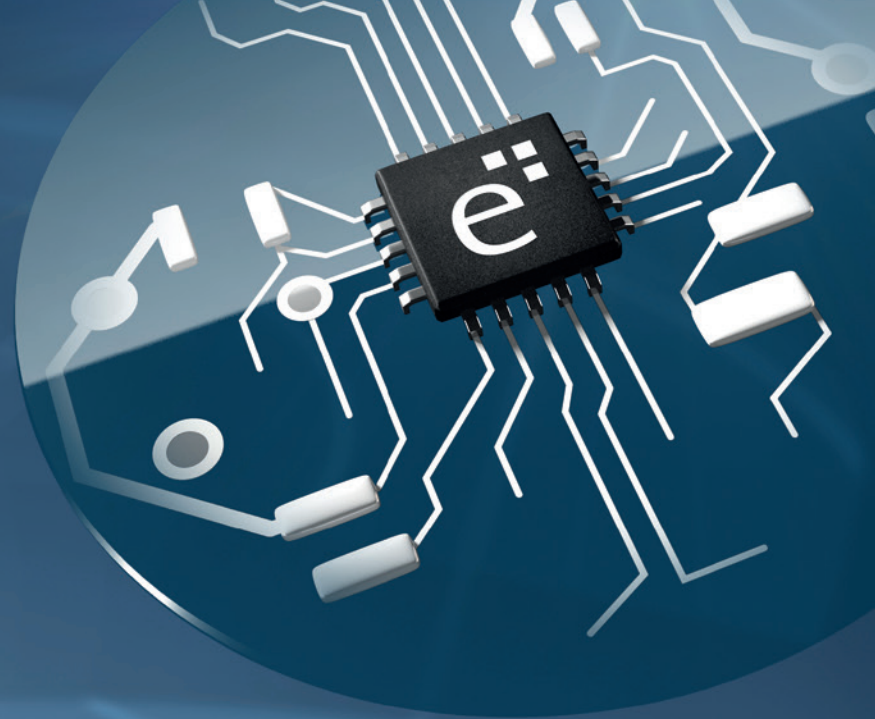


# WE KNOW WHAT'S GOING ON AROUND THE CAR

Continuous innovation has made us the global market leader for ultrasonic ranging. The near range from a few centimetres to two car lengths is monitored by our ultrasonic ICs. Today they have become an essential part of comfort and safety applications, such as parking and emergency braking assistant. They are indispensable in the “car of tomorrow” – and opening up new growth opportunities for us.

- >30 different distance measuring ICs in the portfolio
- >750 million ultrasonic evaluation ICs delivered
- Used by all well-known automobile manufacturers






**#1** in ultrasonic distance measurement  
For the required distance.

# WE KNOW HOW INNOVATION WORKS

In bright sunshine or in the dark of night, the car recognises your hand. Why? Because our chip works according to a principle that is unique in the world. That is why it always works exactly as you expect. Thanks to this innovation, we are the global market leader for proximity and gesture control in the car.

- >30 million semiconductors successfully delivered
- Fast and reliable: the car “blindly” understands you
- Yesterday’s science fiction, today’s reality: a wave is all it takes!





**#1 in gesture control**

For more safety with less distraction.

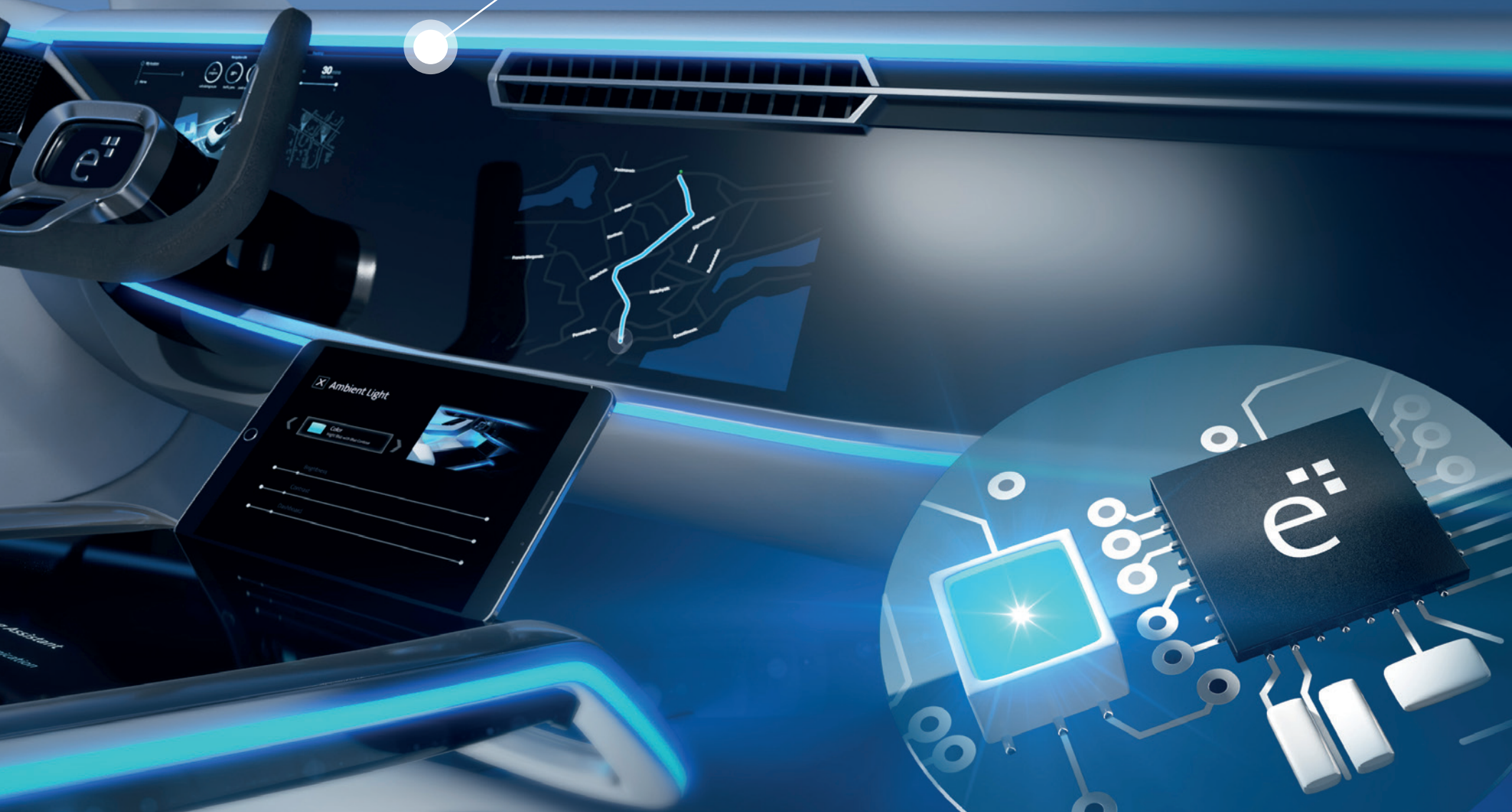
# WE KNOW WHAT CUSTOMERS EXPECT

Elmos lets the car interior light up in the preferred colour. We are number 1 in ICs for controlling ambient interior lighting. Our IC is designed for reliability and straightforward system setup. We thought about the needs of our customers: our solutions take up little space and the LEDs provide even lighting over the complete life cycle.

- >30 million LED ambient light ICs per year
- Without programming: LEDs know their position in the network
- 100% consistent colouring from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$



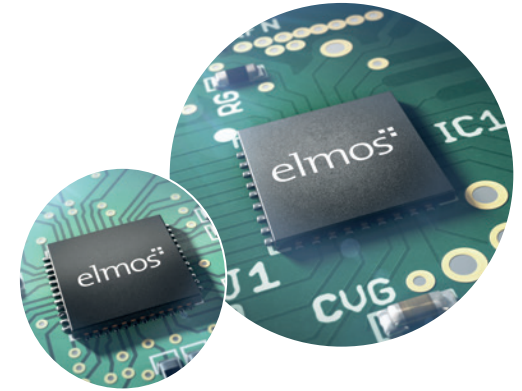
**#1** in LED ambient light  
For an atmosphere of wellbeing.



# OUR KNOW-HOW FOR A BETTER SYSTEM

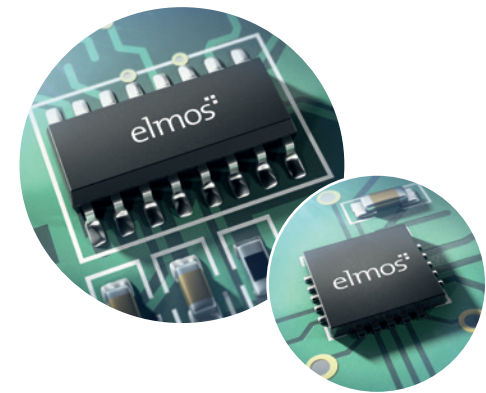
Our ICs bring innovation to the customer's system. That is our claim. We are among the world's most experienced suppliers of customer specific semiconductors for the automotive industry. Our self-defined, application specific ICs are on the cutting edge. More than 350 satisfied customers all over the world are convinced by our innovativeness and quality.

- Focus on automotive applications: ~85% of sales
- >500 different products successfully delivered to customers
- Meeting the highest automobile quality standards



## **Awesome performance in a small space**

Our products simplify the customer's system and add value – with ultimate reliability.





#### **We light up the LED rear light**

Elmos semiconductors deliver consistent lighting intensity and patented power loss management. This means the rear lights always light up reliably, no matter what the temperature.



#### **We transfer data in the network**

Elmos ICs manage the increasing flow of data in the car and ensure that all information gets to where it is needed.



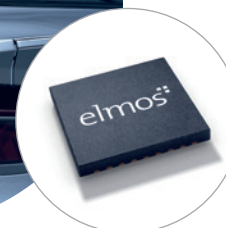
#### **We control the climate flaps**

Elmos semiconductors control stepper motors in the climate flaps and help to ensure optimum ventilation of the car interior.



#### **We deploy the airbag**

Activating the airbag at the right moment can save lives in an emergency. Elmos ICs have been reliably deploying airbags at various locations in the car for more than two decades.



#### **We provide comprehensive antenna protection**

An interference-free GPS signal is essential for navigation to show the right way. The Elmos chip helps reliably receive the location and lots of other data.

# WE ARE STRONG – GLOBALLY AND REGIONALLY

Elmos has expanded its international presence. With locations all over the world, we are represented in all key markets and always close to the customer. Our business model encompasses the entire process of a semiconductor: highly specialized teams create ideas and develop, produce and market the electronic components that make the difference. We provide our customers with innovation for the future car.

- Highly specialised research and development team
- International customer support
- Worldwide production and distribution network



## Business lines

- Market Analysis
  - Technical Definition
- 



## Development

- Application/IC Design
  - Embedded Software
- 



## Production

- Wafer Processing
  - Wafer/IC Test
  - Fab lite
- 



## Sales

- International Sales
- Distributors



#### **Dortmund**

Our head office combines the development, production and sale of semiconductors at one site.



#### **St. Petersburg**

Development in the Russian metropolis focuses on highly developed solutions for automotive and industrial applications.



#### **Seoul**

Close customer relationships with the Korean automobile industry are strengthened by our local sales and application experts.



#### **Silicon Valley**

Our experts for pressure sensors are located at the heart of the high-tech site in the San Francisco Bay area.



#### **Berlin**

Our branch in Berlin develops high precision solutions for ultrasonic applications, amongst others.



#### **Shanghai**

We provide comprehensive customer support in the Chinese metropolis. In Singapore and Tokyo, we always have the right local contact as well.

# THE HEART OF INNOVATION: OUR EMPLOYEES

There are many good reasons to become part of the Elmos team: as a modern, international employer, we offer attractive working environment and a variety of individual development opportunities for our employees. We are a growing company looking for apprentices, graduates of technical, scientific and natural science courses of study, and experienced minds seeking new challenges.

- We offer international career opportunities
- Your know-how makes the car safer, more environmentally friendly and more comfortable
- Join a strong team: over 1,200 employees worldwide



## **Be part of a team**

“Working together is success” – Henry Ford said it first. We have a company culture that promotes a team-based approach to work, is always open to questions and has flat hierarchies. Innovations can grow in just such an environment.



## **Always up to date**

We are familiar with big data, industry 4.0, artificial intelligence and digitalisation. To ensure we always stay up to date, we maintain a work environment that allows our employees to contribute their skills and pursue their further development. Elmos offers numerous training and continuing education opportunities – to make you fit for the future.



### Start your career

If you want your career to be a success, whether on the commercial or the technical side, join us. We offer excellent training conditions in an innovative environment. With us, you learn how the electronic heart of the modern car is developed, produced and marketed. You have graduated? Enter the high-tech sector and start your career.



### International environment

As a global company, we have a cosmopolitan culture based on mutual respect, regardless of gender, origins, religion or physical limitations.

### Healthy and fit

Elmos wants to offer more than just a place to work and is aware of its social responsibility to its employees. If you want to stay fit in your job, we are the place to be: we offer you a company fitness centre, preventive medical examinations and participation in local sports events.





Elmos Semiconductor AG  
Heinrich-Hertz-Straße 1  
44227 Dortmund | Germany  
Telephone: + 49 (0) 231-75 49-0  
Fax: + 49 (0) 231-75 49-149  
[info@elmos.com](mailto:info@elmos.com) | [www.elmos.com](http://www.elmos.com)

Image credits: kukune mediendesign, Elmos Semiconductor AG, iStock  
This brochure was published on 14 March 2018.