Master advanced technology to improve automotive components

BAOLONG

ADAS

Inteligent Perception of The Future

智 能 感 知 未 来

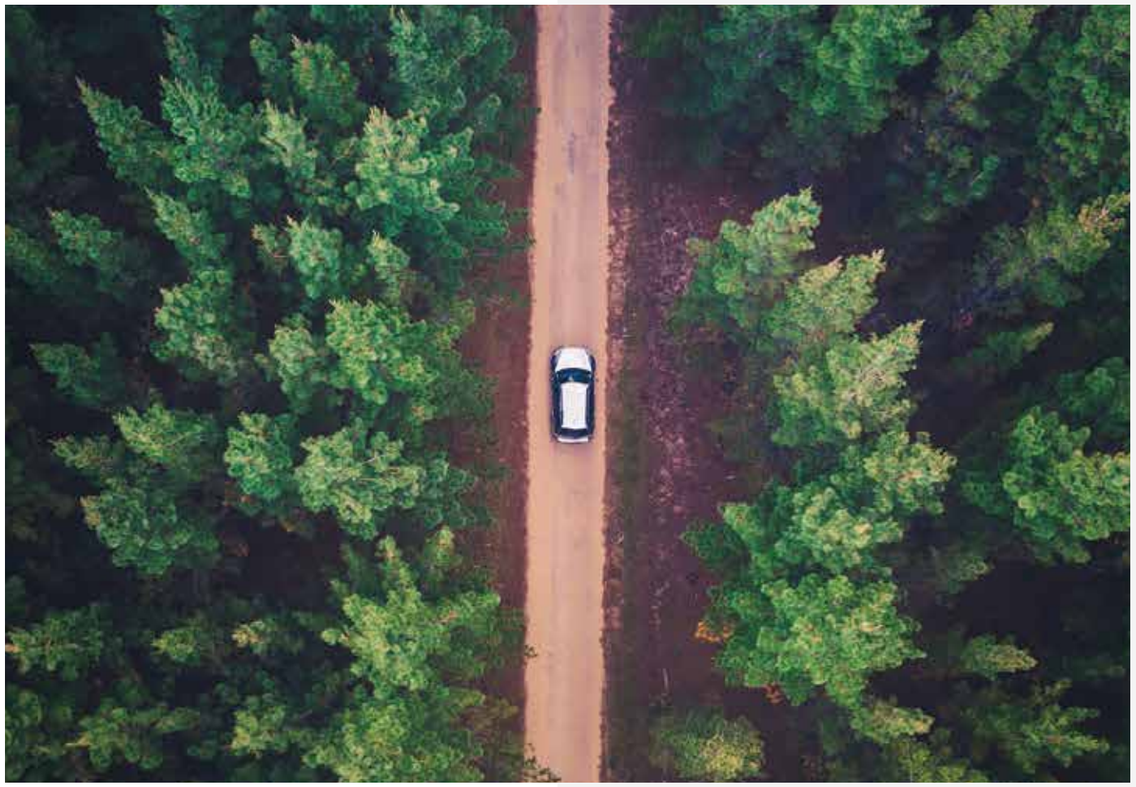
让更多人受益于汽车科技的发展

DEVELOP AUTOMOTIVE TECHNOLOGY FOR THE BENEFIT OF MORE PEOPLE

INTELLIGENT PERCEPTION OF THE FUTURE

01

Our Mission and Vision
我们的使命和愿景



“

掌握领先技术，提升汽车部件。

Master advanced technology to improve automotive components

让更多人受益于汽车科技的发展。

Develop automotive technology for the benefit of more people

About Baolong Automotive

关于保隆科技

保隆科技于1997年5月在松江创立，2017年在上交所上市；截至2025年底，在上海松江、浦东、安徽宁国、安徽合肥、湖北武汉、江苏高邮和美国、德国、波兰、匈牙利、奥地利、泰国等地有12个生产园区、23家工厂和15个研发中心，以及20余个销售分支机构，全球员工超过8100人。

公司产品包括TPMS、车用传感器、智能辅助驾驶产品、智能悬架、汽车金属管件、气门嘴以及平衡块、BUSBAR、液冷板和铝外饰件等。

保隆科技已成为气门嘴、平衡块、排气管、胎压监测系统、智能悬架等细分领域的全球领先供应商之一，是中国汽车供应链百强、上海市制造业五十强企业，为全球50多个国家2500余个客户服务，主要客户包括全球主要的整车企业、一级供应商以及独立售后市场流通商。

Shanghai Baolong Automotive Corporation was founded in May, 1997 in Songjiang District, Shanghai, and has been listed on Shanghai Stock Exchange since 2017. By the end of 2025, the company has 12 manufacturing campuses, 23 factories, 15 R&D centers, and over 20 sales branches in China (Songjiang District and Pudong District, Shanghai; Ningguo and Hefei, Anhui Province; Wuhan, Hubei Province; Gaoyou, Jiangsu Province), the United States, Germany, Poland, Hungary, Austria, Thailand, etc., and more than 8,100 staff around the world.

Baolong offers extensive product portfolio including TPMS, automotive sensors, intelligent assisted driving solutions, ECAS, automotive metal tubing, tire valves, wheel weights, BUSBAR, liquid cold plates, aluminum exteriors, and more.

Baolong has become one of the leading global supplier of tire valves, wheel weights, exhaust pipes, TPMS, and ECAS. It is ranked among China Top 100 Automotive Suppliers and Shanghai Top 50 Manufacturing Enterprises. We've proudly supplied to over 2,500 customers in more than 50 countries. Our main customers include major carmakers, tier-1 suppliers, and independent aftermarket distributors in the world.

Customer Base
主要客户

自主品牌
Chinese Brands

造车新势力
NEV Start-ups

外资品牌
Foreign Brands

保隆科技与许多世界知名的整车厂和一级供应商合作，他们相信保隆科技致力于汽车产品和解决方案的创新和改变，使得驾乘人员能够获得更安全、更有效率和更舒适的体验。

Baolong cooperates with many world-renowned OEMs and Tier 1 suppliers that trust us to implement the most innovative and game-changing products and solutions to improve safety, efficiency and comfort.

一级供应商
Tier 1 Suppliers

售后客户
Aftermarket

注：以客户英文名称首字母的先后顺序排列（In alphabetical order of English name）

Global Footprint
全球布局

29 年历史

1997年5月20日，创立于上海松江

Founded in Songjiang,
Shanghai on May 20, 1997

8100+ 名员工

截至2025年底，全球员工总数超过8100人

More than 8,100 employees globally
as of the end of 2025

12 个生产园区

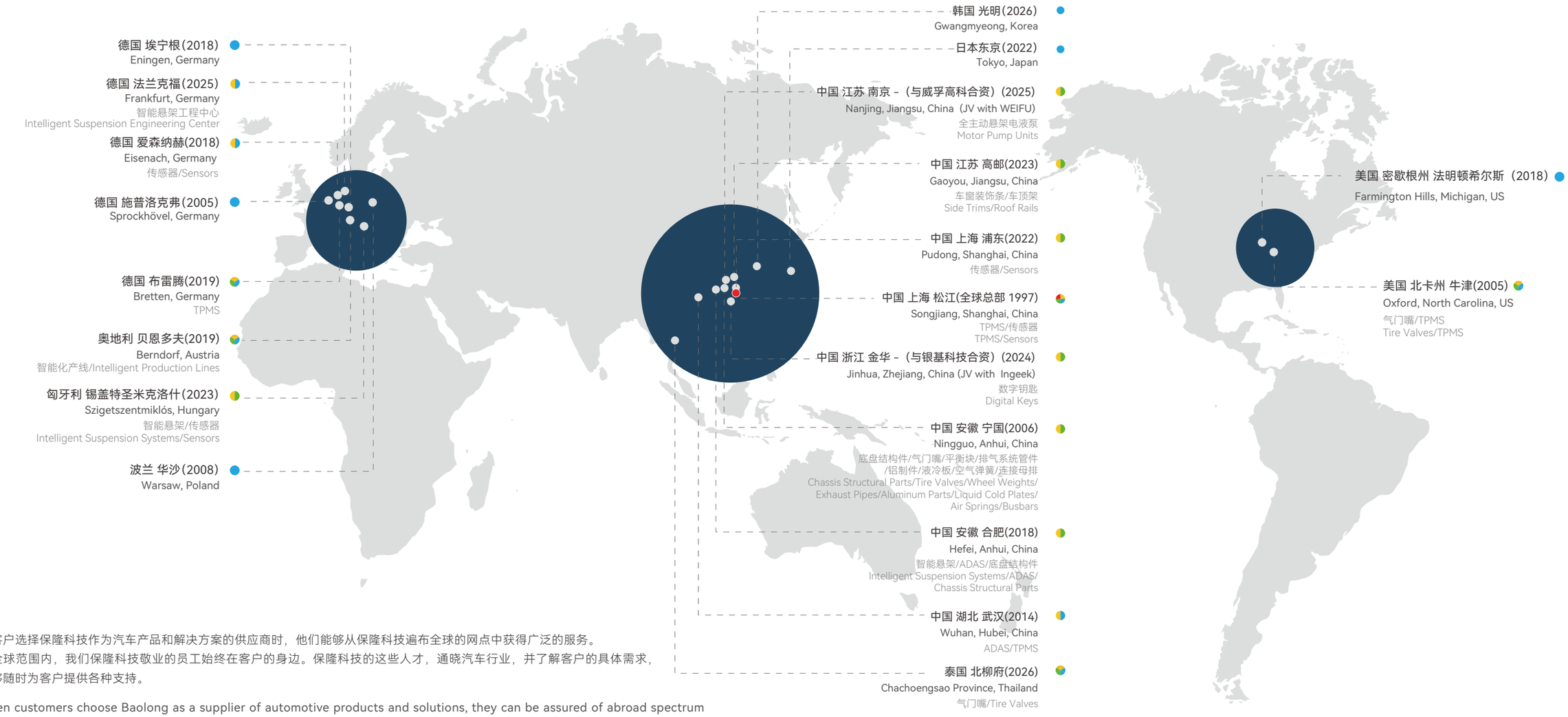
在中国、东南亚、北美、欧洲，设有12个生产园区

Twelve manufacturing parks in China, Southeast Asia,
North America and Europe

2500+ 个客户

向全球50多个国家和地区的2500多个客户提供产品和服务

Supplies to more than 2,500 customers
in over 50 countries and regions



当客户选择保隆科技作为汽车产品和解决方案的供应商时，他们能够从保隆科技遍布全球的网点中获得广泛的服务。
在全球范围内，我们保隆科技敬业的员工始终在客户的身边。保隆科技的这些人才，通晓汽车行业，并了解客户的具体需求，能够随时为客户提供各种支持。

When customers choose Baolong as a supplier of automotive products and solutions, they can be assured of abroad spectrum of services from Baolong's global network.
Globally present, the access to Baolong's dedicated employees is never far away. Baolong's talents who all know the automotive industry and understand customers' specific demands and needs are always ready to support customers.

Milestones
发展历程

目前已跻身全球前三
At present, among the top 3 globally

目前已跻身国内前三
At present, among the top 3 in China

1997
公司成立
Baolong founded

1998
自研轮胎气门嘴
Developed tire valves

1999
总部园区成立
Songjiang campus opened

2000
自研车轮平衡块
Developed wheel weights

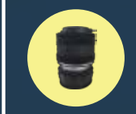
2001
自研排气系统管件
Developed exhaust pipes

2002
自研TPMS
Developed TPMS

2006
宁国园区成立
Ningguo campus opened

2009
自研汽车压力传感器
Developed pressure sensors

2012
自研汽车结构件
光雨量传感器
空气弹簧
Developed structural parts, rain & light sensors and air springs



2013
自研视觉系统、
毫米波雷达
Developed cameras and millimeter-wave radars

2014
武汉园区成立
Wuhan campus opened

2016
自研电控减振器
Developed air spring dampers

2017
上海证券交易所上市
IPO on Shanghai Stock Exchange

2017
自研轮速传感器
电流传感器
Developed Wheel speed sensors; Current sensors

2018
合肥园区成立
Hefei campus opened

2018
自研ECAS，包括：
全铝悬架储气罐
悬架控制单元
空气供给单元
车身加速度传感器
车身高度传感器
收购德国PEX和TESONA
Developed ECAS, including:
All-aluminum air reservoirs for intelligent suspension;
Suspension controllers;
Air supply units;
Body accelerator sensors;
Body height sensors.
Acquired PEX and TESONA, Germany

2020
合资成立领目科技
Jointly establish Leadmove

领目科技 LEADMOVE

2022
收购龙感科技，
合资成立优达斯
Acquired LONGAN;
Jointly establish UDAS

LONGAN 龙感
UDAS

2023
欧洲研发制造中心正式开园；
European R&D and manufacturing center opened

2024
合资成立银基科技
Jointly establish Ingeek

INGEEK 银基科技

2025
合资成立威孚高科
Jointly establish WEIFU

WEIFU威孚

2026
泰国生产园区开园
Thailand manufacturing campuses opened

Global Operation

国际化运营

1997

开展汽车零部件国际贸易

Started international sales of auto parts

2005

设立海外公司VALOR;
收购成立于1909年的美国DILL

Founded Valor in Germany, an overseas subsidiary
Acquired DILL, an American company founded in 1909

2018

收购德国传感器公司PEX和TESONA

Acquired PEX and TESONA sensor companies in Germany

2019

与德国第二大钢铁公司沙士基达签订协议设立合资公司-BSHF
与德国霍富集团（HUF）成立合资公司-保富电子
收购奥地利MMS，在中国上海设立运营中心

Founded BSHF, a Chinese joint venture with Salzgitter, the 2nd biggest steel company in Germany
Founded BH SENS, a global joint venture with Huf, a German company
Acquired MMS, an Austrian company and founded an opera-tion center in Shanghai, China

2020

保隆（欧洲）控股有限公司（BHE）在匈牙利购置土地，投资建设新园区

Baolong Holdings Europe Kft. bought land in Hungary for construction of the new production base

2022

匈牙利园区开建

Started construction of a new factory in Hungary

2023

保隆欧洲研发制造中心正式开园

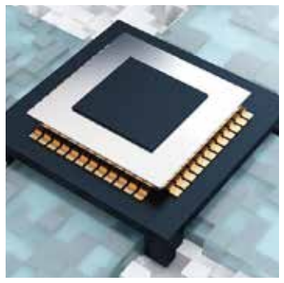
Baolong European R&D and manufacturing center officially opened

2026

泰国园区开园

The campus in Thailand opened

Contents
目录



01

CAMERAS

/摄像头/

FRONT VIEW CAMERA

感知摄像头-单目摄像头

前视摄像头可实现对车辆前方视觉感知，120度镜头视场角感知前方远距离的物体。与整车的雷达配合，感知路况，消除盲区，能够帮助车辆更好地识别高速移动的物体。同时，项目将继续自研创新800万像素小型化产品，以25*25mm的小巧尺寸设计可以适应更多安装位置，满足客户对低成本化和小型化的需求。助力智能驾驶的应用。

The front view camera focuses on the front views of the vehicle. Lens field of view has 120°. Integrated with radar, it can perceive road conditions and eliminate blind spots, so that the vehicle can better recognize high-speed moving objects and it has good performance at night. The company will continue to self-develop and innovate on 8 -million-pixel cameras with a small size of 25*25mm, which are compatible with more installation positions, meeting the customer's demand for low cost and small size.

应用场景 / Application Scenarios

一般用于分离式一体机或域控，结合算法或与毫米波雷达融合，可以实现大多数前向智能驾驶的功能；

Usually used for separated all-in-one machine or domain controller. Combined with algorithms or fusion with millimeter wave radar, most functions of intelligent driving in respective of front views can be realized:

盲区监测 ICC

自适应巡航 ACC

车道保持辅助 LKA

行人自主紧急制动 PAEB

交通拥堵辅助 TJA

车道偏离预警 LDW

前向碰撞预警 FCW

智能大灯 IHC

交通标志识别 TSR

800万前视摄像头

8M pixels Front View Camera

品牌/Brand	豪威/索尼
功耗 / PowerConsumption	DC 9-16V
消耗电流 / Current Consumption	<1.2w@30fps,12v, 25℃
工作温度范围 / Temperature	-40℃ ~ +85 ℃
存储温度范围 / Storage Temperature	-40℃ ~ +95℃
图像输出分辨率 / Output Resolution	4K（3840*2160）
像素大小/ Piexl Size	2.1um
动态范围 / Dynamic Range	120dB
帧率 / Frame Rate	30pfs(MAX 36fps)
启动时间 / Start Time	< 500ms
最低照度 / Minimum Illumination	SNR @ 1 Lux ≥ 10dB
数据输出接口 / Output Interface	LVDS POC
视场角 / Angle of View	H:121°, V:54.8°
光圈 / Aperture	F1.6

8M BINOCULAR VISION CAMERA
感知摄像头-双目摄像头

将一个宽视角和一个窄视角的是8M摄像头集成集成在一个结构支架上，可以兼顾近距离的目标检测和远距离的目标检测。宽视角摄像头主要用来检测较近的目标，可以实时检测相邻车道上的目标，窄视角可以精准识别200m以外的目标，让智能驾驶更加安全。

The 8M camera with a wide view and a narrow view is integrated on a structural support, which can take into account the target detection at close range and the target detection at long range. The wide-angle camera is mainly used to detect the closer target, which can detect the target in the adjacent lane in real time, and the narrow-angle camera can accurately identify the target beyond 200m, which makes the assisted driving safer.

应用场景 / Application Scenarios

一般用于分离式一体机或域控，结合算法或与毫米波雷达融合，可以实现大多数前向智能驾驶的功能。

Usually used for separated all-in-one machine or domain controller. Combined with algorithms or fusion with millimeter wave radar, most functions of intelligent driving in respective of front views can be realized.

盲区监测 ICC

自适应巡航 ACC

车道保持辅助 LKA

行人自主紧急制动 PAEB

交通拥堵辅助 TJA

车道偏离预警 LDW

前向碰撞预警 FCW

智能大灯 IHC

交通标志识别 TSR

产品参数 / Product Parameters

品牌/Brand	豪威/索尼
输入电压 / Input Voltage	DC 9-16V
功耗 / PowerConsumption	<2*1.5w @30fps,12v, 25℃
工作温度范围 / Temperature	-40℃ ~ +95 ℃
存储温度范围 / Storage Temperature	-40℃ ~ +105℃
图像输出分辨率 / Output Resolution	4K（3840*2160）
像素大小/ Piexl Size	2.1um
动态范围 / Dynamic Range	120dB
帧率 / Frame Rate	30pfs(MAX 45fps)
功能安全 / Functional Safety	ASIL B
最低照度 / Minimum Illumination	SNR @ 1 Lux ≥ 10dB
数据输出接口 / Output Interface	LVDS POC
视场角 / Angle of View	H:120°，V:65.6° H:30°， V:17°
光圈 / Aperture	F1.6

8M TRIOCULAR STEREO VISION

感知摄像头-三目立体视觉

三目立体视觉模组实现多功能应用，两侧同质化图像传感器实现视差图输出，得到3D点云，远距离测量，完成立体视觉的检测，获得目标的深度信息，辅助车辆精准避障。中间设置广角高分辨率图像传感器，用于覆盖大范围前方场景，补足车辆盲区，对于近距离移动目标的跟踪、识别及避让起到重要作用，尤其是对近距离行人及非机动车辆的横穿场景，能够准确预判，避免事故或减少事故程度。

Three-dimensional vision module to achieve multi-functional applications, both sides of the homogenized image sensor to achieve parallax map output, to obtain 3D point cloud, remote measurement, complete stereo vision detection, obtain the depth of the target information, assist vehicles to accurately avoid obstacles. The wide-angle high-resolution image sensor is set in the middle, which is used to cover a large range of front scenes and make up for the blind area of the vehicle. It plays an important role in tracking, identification and avoidance of short-range moving targets, especially for the crossing scene of short-range pedestrians and non-motor vehicles, which can accurately predict and avoid accidents or reduce the degree of accidents.

应用场景 / Application Scenarios

一般用于分离式一体机或域控，结合算法或与毫米波雷达融合，可以实现大多数前向智能驾驶的功能：

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前向碰撞预警 FCW

智能大灯 IHC

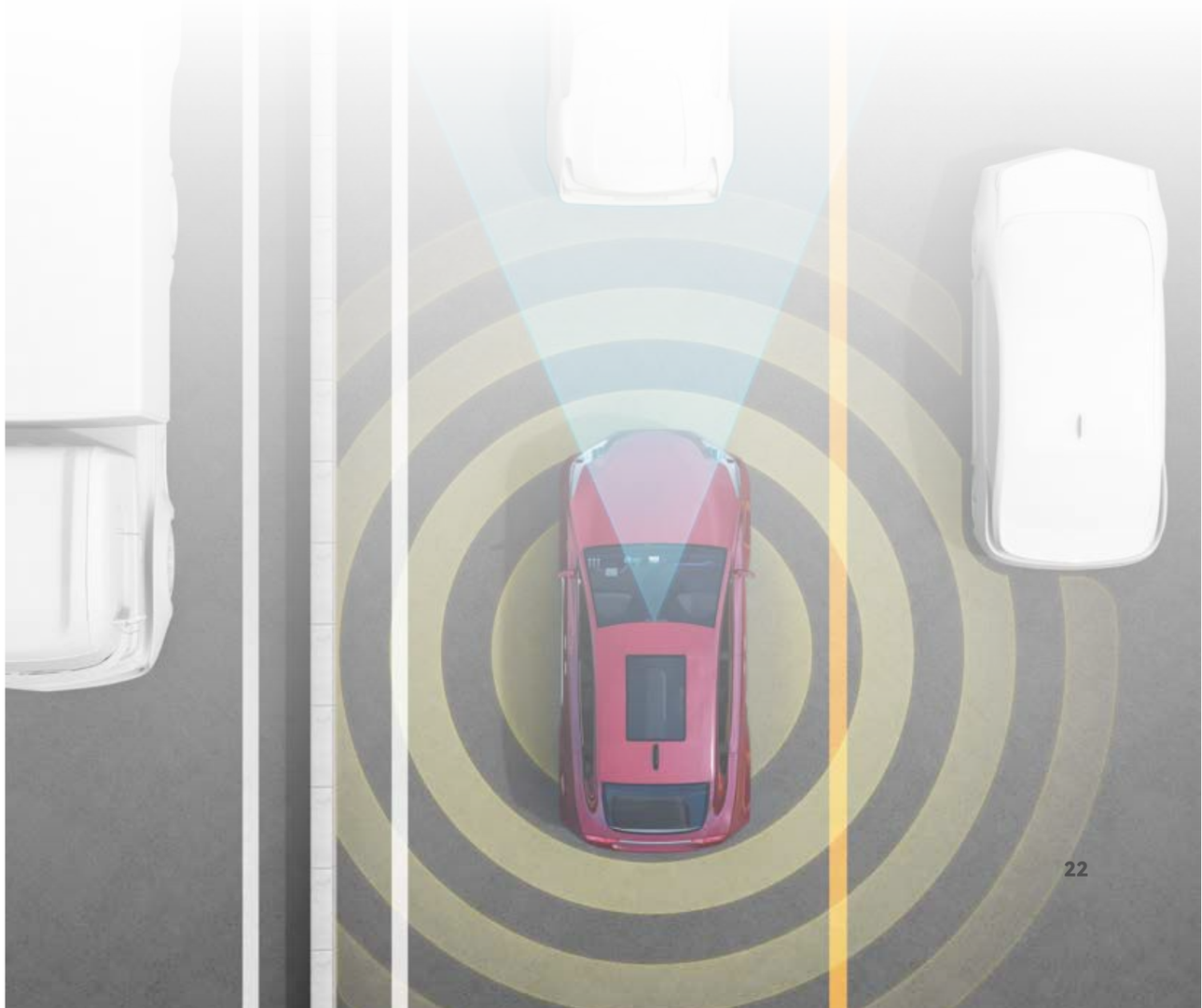
交通标志识别 TSR

产品参数 / Product Parameters

品牌/Brand	豪威	
两侧摄像头 / Besides Cameras	中间摄像头 / Besides Cameras	摄像头输出像素 / Besides Cameras
HFOV：121.2°	VFOV：29.8°	3840*2160
VFOV：67.2°	DFOV：16.8°	
DFOV：140.1°	HFOV：34.2°	

*FOV的大小根据功能需要，算法上可能会不同大小的裁切

*双目摄像头baesline:110mm（120°摄像头两侧，30°摄像头居中）



AROUND VIEW MONITORING CAMERA

环视摄像头

环视摄像头安装在车身之前、后、左、右的超广角摄像头；实时采集车辆周围的影像，经过对四个摄像头采集到的原始图像进行矫正、视角变换、拼接后，形成一幅360°全景鸟瞰图画面；并实时传送至位于车载导航显示器上显示。驾驶员通过显示器画面即可轻松观察到车辆所处位置以及车辆周围的情况，从容操控车辆泊车入位、避开障碍物或通过复杂路面，有效减少刮蹭、碰撞、陷落等事故的发生。

The AVM camera is a kind of ultra-wide-angled camera mounted on the front, rear, left and right of the vehicle. After correction, visual angle change, and stitching of the original images collected by the four cameras, a 360° panoramic aerial view is created and transmitted to the navigation displayer in real time, so that the driver can easily observe the position and surroundings of the vehicle, which makes parking, avoidance of obstacles and passing complex road more easily, and scratching, collision, collapse, etc. can be reduced.

100万环视摄像头

1-million-pixel AVM Camera

产品参数 / Product Parameters

品牌/Brand	豪威/思特威
工作电压 / Operating Voltage	DC 7~16V
工作温度 / Operating Temperature	-40℃ ~ +85℃
存储温度 / Storage Temperature	-40℃ ~ +95℃
传感器 / Sensor	CMOS
像素尺寸 / Pixel Size	3μm
光圈 / Aperture	F2.0 / F1.6
分辨率 / Resolution	1280×720 / 1280×960
帧率 / Frame Rate	25fps 30fps
清晰度 / Definition	中央区域 / Central Area ≥600TV Line，边沿区域 / Edge Area ≥500TV Line
视场角 / FOV	HFOV=197° VFOV= 152°@960P HFOV =197° VFOV= 120°@720P HFOV=195° VFOV= 151°@960P HFOV =195° VFOV= 129°@720P
信噪比 / SNR	42dB / 43dB
动态范围 / Dynamic Range	120dB
最低照度 / Minimum Illumination	SNR @ 1 Lux ≥ 10dB
输出信号 / Output Signal	LVDS POC
动态白平衡 / Dynamic White Balance	支持 / Yes
红外滤波 / Infrared Filtering	支持 / Yes
工艺 / Technology	A镜头/ A板子 前后壳激光焊接/ AA Technology Laser welding
防水 / IP Grade	前端 / Front IP69K，后端 / Rear IP67

应用场景 / Application Scenarios

2D/3D视图 2D/3D View

轨迹线 Path Line

3D车模 3D Model

视角切换 View Switching

透明车底 Transparent Bottom

障碍物识别与报警 Obstacle Recognition and Alarm

四周目标检测与识别 Surroundings Detection and Recognition

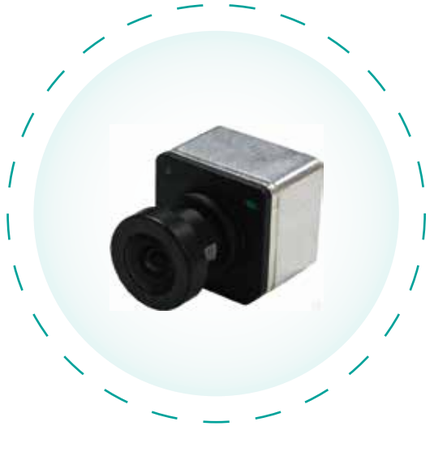
300万环视摄像头

3-million-pixel AVM Camera

产品参数 / Product Parameters

品牌/Brand	索尼/豪威/思特威
工作电压 / Operating Voltage	DC 7~16V
工作温度 / Operating Temperature	-40℃ ~ +85℃
存储温度 / Storage Temperature	-40℃ ~ +95℃
传感器 / Sensor	CMOS
像素尺寸 / Pixel Size	3μm
光圈 / Aperture	F2.0
分辨率 / Resolution	1920×1536
帧率 / Frame Rate	30fps / 45fps
清晰度 / Definition	中央区域 / Central Area ≥800TVLine，边沿区域 / Edge Area ≥600TVLine
视场角 / FOV	HFOV=195° VFOV=154°@1920×1536 环视 / Around View
信噪比 / SNR	42dB
动态范围 / Dynamic Range	120dB
最低照度 / Minimum Illumination	SNR @ 1 Lux ≥ 10dB
输出信号 / Output Signal	LVDS POC
动态白平衡 / Dynamic White Balance	支持 / Yes
红外滤波 / Infrared Filtering	支持 / Yes
工艺 / Technology	A镜头/ A板子 前后壳激光焊接 / AA Technology Laser Welding
防水 / IP Grade	前端 / Front IP69K，后端 / Rear IP67

SIDE-VIEW CAMERA
周视/后视摄像头



侧视摄像头是车辆环境感知系统的重要组成部分，与其他传感器（如雷达、激光雷达、超声波传感器等）协同工作，共同构建了一个全方位的车辆环境感知网络。通过实时捕捉并处理车辆侧面的图像数据，侧视摄像头能够为驾驶系统提供精确的道路信息和障碍物检测，从而支持车辆的自主导航和避障功能。此外，在复杂的交通环境中，侧视摄像头还能帮助车辆实现车道保持、并线辅助等高级驾驶辅助功能，进一步提高驾驶的安全性和舒适性。

The side-view camera is an important component of the vehicle's environmental perception system, working in conjunction with other sensors (such as radar, lidar, ultrasonic sensors, etc.) to form a comprehensive vehicle environmental perception network. By capturing and processing real-time image data on the vehicle's side, the side-view camera can provide precise road information and obstacle detection for the driving system, thereby supporting the vehicle's autonomous navigation and obstacle avoidance functions. Additionally, in complex traffic environments, the side-view camera can assist the vehicle in achieving advanced driving assistance functions such as lane keeping and lane change assistance, further enhancing driving safety and comfort.

应用场景 / Application Scenarios

结合视觉感知系统算法，可以实现 / Combined with DMS system algorithm, it can achieve

盲区监测
ICC

自适应巡航
ACC

车道保持辅助
LKA

行人自主紧急制动
PAEB

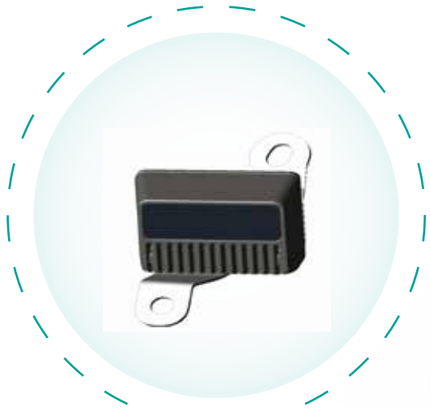
交通拥堵辅助
TJA

产品参数 / Product Parameters

品牌/Brand	豪威/索尼/思特威
信号类型 / Signal Type	LVDS
接插件 / Connector	Fakra
输出分辨率 / Output Resolution	1920*1536
帧率 / Frame Rate	30fps(max 36fps)
动态范围 / Dynamic Range	120dB
视场角 / FOV	HFOV：100°，VFOV：60°
视频信号稳定时间/ Video Signal Stabilization Time	<300ms
信噪比 / SNR	37.4dB
数据格式/Data Format	RAW
工作电压 / Operating Voltage	9-16V（12V额定 / Rated）
工作电流 / Operating Current	<200mA
功耗 / Power Consumption	<1W @30fps
供电方式 / Power Supply	PoC
工作温度 / Operating Temperature	-40℃~85℃
存储温度 / Storage Temperature	-40℃~95℃
保护等级 / Protect Grade	前端 / Front IP69K，后端 / Rear IP67

DRIVER MONITOR SYSTEM CAMERA

驾驶员监控DMC摄像头



基于数字高清技术，主要实现对驾驶员的身份识别、疲劳监测以及危险驾驶行为的监测功能，产品可针对多等级自动驾驶功能，在乘用车、商用车等不同领域的应用，设计不同的报警机制，并可对关键数据进行存储和上传云端，能够较好地提升智能驾驶安全等级，提高车辆行驶安全。

Based on digital high-definition technology, it's used for driver identification, fatigue monitoring and dangerous actions monitoring. The product can be used for self-drive of different levels for passenger vehicles, commercial vehicles, etc. Different alarm mechanisms can be designed, and key data can be stored and uploaded to the cloud.

应用场景 / Application Scenarios

结合DMS系统算法，可以实现 / Combined with DMS system algorithm, it can achieve:

- 人脸识别 Face Identification
- 疲劳与瞌睡监测 Fatigue and Sleepiness Monitoring
- 注意力不集中测 Inattention Monitoring
- 打电话监测 Phone Call Monitoring
- 吸烟监测 Smoking Monitoring
- 喝水监测 Drinking Monitoring
- 长时间驾驶监测 Long Driving Monitoring
- 视线跟踪 Eye Tracking
- 手势识别 Gesture Recognition
- OMS 生物遗留 Occupancy Detection
- 睡意分级(欧盟强标) Level of Sleepiness (EU Standard)
- 镜头遮挡 Lens Sheltered

产品参数 / Product Parameters

品牌/Brand：豪威/思特威

	1M DMC Camera	2M DMC Camera
信号类型 / Signal Type	LVDS	LVDS
接插件 / Connector	Fakra	Fakra
输出分辨率 / Output Resolution	1280x800	1600x1300
帧率 / Frame Rate	30fps	30fps
动态范围 / Dynamic Range	68dB	68dB
视场角 / FOV	HFOV：50 ~ 60°，VFOV：35 ~ 40°	HFOV： 50 ~ 60°,VFOV：35 ~ 40°
视频信号稳定时间 / Video Signal Stabilization Time	<300ms	<300ms
信噪比 / SNR	37.4dB	37.4dB
ISP	是 / Yes	是 / Yes
快门类型 / Shutter	Global Shutter	Global Shutter
传感器 / Sensor	COMS	COMS
波长 / Wave Length	940nm	940nm
发射角 / Launching Angle	25°（半角 / Semi-angle）	25°（半角 / Semi-angle）
工作电压 / Operating Voltage	9-16V（12V额定 / Rated）	9-16V（12V额定 / Rated）
工作电流 / Operating Current	<200mA	<200mA
功耗 / Power Consumption	<6W	<6W
供电方式 / Power Supply	PoC	PoC
工作温度 / Operating Temperature	-40℃ ~ 85℃	-40℃ ~ 85℃
存储温度 / Storage Temperature	-40℃ ~ 95℃	-40℃ ~ 95℃
保护等级 / Protect Grade	IP5K2	IP5K2
安装位置 / Mounting Position	左A柱 /方向盘管柱（无遮挡） Left A-pillar / steering Wheel String (Unsheltered)	左A柱/方向盘管柱（无遮挡） Left A-pillar / steering Wheel String (Unsheltered)

OCCUPANCY MONITORING SYSTEM CAMERA

乘客监控OMC摄像头

实时采集车舱内部状态图像，通过分析用于提供儿童监控、生命体征监测、乘客位置状态等监控功能，另外可以进行遗留物监测提醒车主，以及物体识别与人车交互系统（手势控制）等功能。

By real-time acquisition and analysis of images of the cabin, it can provide child monitoring, vital signs monitoring, passenger position monitoring, and occupancy monitoring to alert the driver. It also supports object recognition and human-vehicle interaction system (gesture control).

产品参数 / Product Parameters

品牌/Brand	豪威/思特威
像素尺寸 / Pixel Size	2.2 um
有效像素 / Effective Pixels	2592(H)*1944(V)
输出信号 / Output Signal	MIPI TX（2x4车道或4x2车道, 2.5Gbps/车道）
工作电压 / Operating Voltage	DC 8-16V, Typ.11V
工作电流 / Operating Current	≤600mA@11V
工作温度 / Operating Temperature	-40℃~+85℃
存储温度 / Storage Temperature	-40℃~+95℃
镜头视野范围 / Lens Field of View	154.6°(H) 110.4°(V)
信噪比 / SNR	39dB
IR LED工作波长 / Operating Wavelength	940nm
启动时间 / Start Time	≤500ms
帧率 / Frame Rate	60fps
动态范围 / Dynamic Range	105dB
防护等级 / IP Grade	IP52
尺寸 / Size	长83*宽30*高36.1

应用场景 / Application Scenarios

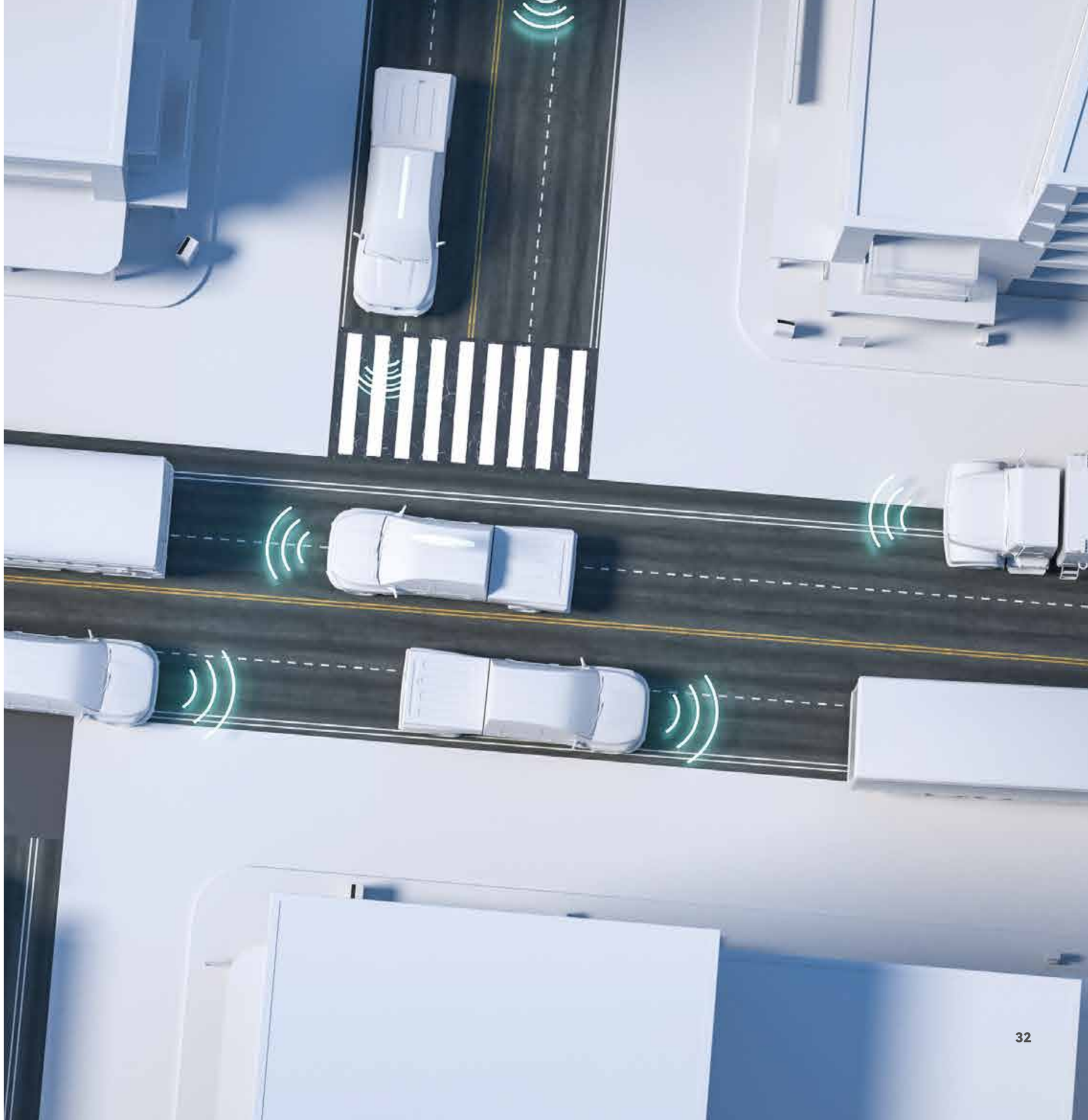
结合控制器算法可实现 / Combined with the controller algorithm, it can achieve:

- 乘客行为识别 Passenger Behavior Recognition
- 遗留物体监控 Left Object Monitoring
- 宠物及活体监控 Living Body Detection
- 手势识别 Gesture Recognition

02

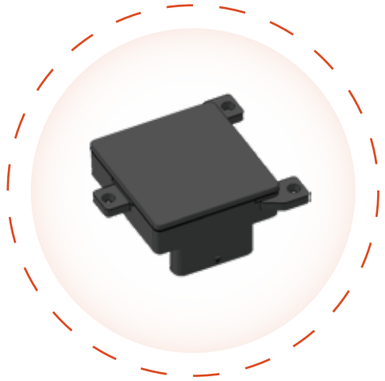
MILLIMETER -WAVE RADARS

/毫米波雷达/



FORWARD MILLIMETER WAVE RADAR

前向毫米波雷达



前向毫米波雷达安装于车辆前方，用来探测雷达前方目标信息，主要应用于FCW / ACC / AEB系统，为车辆安全驾驶提供辅助作用。

The forward millimeter-wave radar is installed in front of the vehicle to detect the target information in front of the radar. It is mainly used in the FCW/ACC/AEB system to provide assistance for the safe driving of the vehicle.

应用场景 / Application Scenarios

前方碰撞预警
FCW

自适应巡航控制
ACC

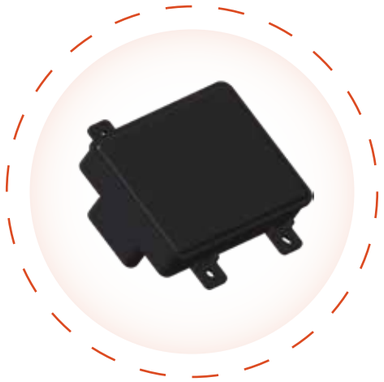
自动紧急制动
AEB

产品参数 / Product Parameters

频率 / Frequency	76GHz~77GHz
调制方式 / Modulation Mode	FMCW
收发 / Tx/Rx	4TX+4RX
带宽 / Operation Bandwidth	430MHz
周期 / Cycle	50ms
目标检测数量 / Number of Detectable Targets	64
工作电压 / Operating Voltage	9V~32V
功耗 / Power Consumption	<3W
检测距离 / Detection Range	0.2m~280m
测距精度 / Range Precision	±0.1m
距离分辨率 / Range Resolution	0.2m
速度范围 / Speed Range	-110m/s~55m/s
速度精度 / Speed Precision	±0.03m/s
速度分辨率 / Speed Resolution	0.1m/s
水平视场角 / Azimuth FOV	±60°
水平测角精度 / Azimuth Angle Precision	±0.1°
水平测角分辨率 / Azimuth Angle Resolution	2.6°
垂直视场角 / Vertical FOV	±15°
垂直测角精度 / Vertical Angle Precision	±0.5°
防护等级 / IP Grade	IP6K9K
尺寸 / Size	74.4mmX82mmX34mm
重量 / Weight	75g

FORWARD 4D MILLIMETER WAVE RADAR

前向4D毫米波雷达



4D毫米波雷达安装于车辆前方，用来探测雷达前方目标信息。相比传统毫米波雷达具有探测距离远，探测精度高，兼具俯仰探测能力等优势，可应用于FCW / ACC / AEB等高阶智驾系统，为车辆安全驾驶提供辅助作用。

4D radar is installed in the front of the vehicle to detect forward information. Compared with traditional millimeter wave radar, it has the advantages of long detection range, high detection accuracy and pitch detection ability. It can be applied to high-order intelligent driving systems such as FCW/ACC/AEB to provide assistance for vehicle safe driving.

应用场景 / Application Scenarios

前方碰撞预警
FCW

自适应巡航控制
ACC

自动紧急制动
AEB

Cut In 场景
Cut In

产品参数 / Product Parameters

频率 / Frequency	76GHz~77GHz
调制方式 / Modulation Mode	FMCW
收发 / Tx/Rx	8TX+8RX
带宽 / Operation Bandwidth	430MHz
周期 / Cycle	66ms
目标检测数量 / Number of Detectable Targets	128
工作电压 / Operating Voltage	9V~32V
功耗 / Power Consumption	<6W
检测距离 / Detection Range	0.2m~350m
测距精度 / Range Precision	±0.1m
距离分辨率 / Range Resolution	0.1m
速度范围 / Speed Range	-110m/s~55m/s
速度精度 / Speed Precision	±0.03m/s
速度分辨率 / Speed Resolution	0.1m/s
水平视场角 / Azimuth FOV	±60°
水平测角精度 / Azimuth Angle Precision	±0.1°
水平测角分辨率 / Azimuth Angle Resolution	1°
垂直视场角 / Vertical FOV	±15°
垂直测角精度 / Vertical Angle Precision	±0.3°
垂直测角分辨率 /Vertical Angle Resolution	2°
防护等级 / IP Grade	IP6K9K
尺寸 / Size	102.2mm×80.2mm×22.1mm
重量 / Weight	<200g

SATELLITE RADAR
卫星雷达

卫星雷达将原本雷达本体的复杂运算能力迁移至域控，仅保留信号传输功能，所有雷达的原始数据都集中到域控进行统一处理，从而提升点云质量，降低系统成本。

4D radar is installed in the front of the vehicle to detect forward information. Compared with traditional millimeter wave radar, it has the advantages of long detection range, high detection accuracy and pitch detection ability. It can be applied to high-order intelligent driving systems such as FCW/ACC/AEB to provide assistance for vehicle safe driving.

应用场景 / Application Scenarios

前方碰撞预警
FCW

自适应巡航控制
ACC

自动紧急制动
AEB

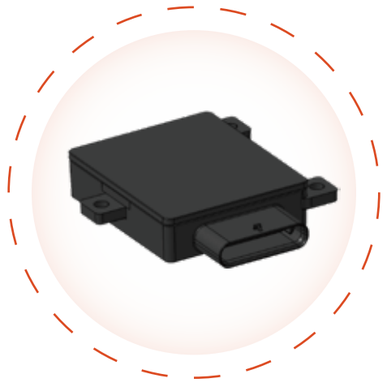
Cut In 场景
Cut In

产品参数 / Product Parameters

频率 / Frequency	76GHz~77GHz
调制方式 / Modulation Mode	FMCW
收发 / Tx/Rx	8TX+8RX
带宽 / Operation Bandwidth	430MHz
周期 / Cycle	66ms
目标检测数量 / Number of Detectable Targets	128
工作电压 / Operating Voltage	9V~32V
功耗 / Power Consumption	<6W
检测距离 / Detection Range	0.2m~350m
测距精度 / Range Precision	±0.1m
距离分辨率 / Range Resolution	0.1m
速度范围 / Speed Range	-110m/s~55m/s
速度精度 / Speed Precision	±0.03m/s
速度分辨率 / Speed Resolution	0.1m/s
水平视场角 / Azimuth FOV	±60°
水平测角精度 / Azimuth Angle Precision	±0.1°
水平测角分辨率 / Azimuth Angle Resolution	1°
垂直视场角 / Vertical FOV	±15°
垂直测角精度 / Vertical Angle Precision	±0.3°
垂直测角分辨率 /Vertical Angle Resolution	2°
防护等级 / IP Grade	IP6K9K
尺寸 / Size	102.2mm×80.2mm×22.1mm
重量 / Weight	<200g

CORNER RADAR

角毫米波雷达



角毫米波雷达安装于车辆四角，采用4发4收方案实现车辆周边目标信息的高精度探测，可实现BSD、LCA、RCW、RCTA、DOW、RCTB、FCTA、FCTB功能。

The corner millimetre-wave radar is installed at the four corners of the vehicle, and the high-precision detection of the target information around the vehicle is realized by using the four-transmitter and four-receiver scheme, which can realize the functions of BSD, LCA, RCW, RCTA, DOW, RCTB, FCTA, and FCTB.

应用场景 / Application Scenarios

盲区监测	变道辅助	开门预警	后向碰撞预警	后方交通穿行提示/制动	前方交通穿行提示/制动
BSD	LCA	DOW	RCW	RCTA/RCTB	FCTA/FCTB

产品参数 / Product Parameters

频率 / Frequency	76GHz~77GHz
调制方式 / Modulation Mode	FMCW
收发 / Tx/Rx	4TX+4RX
带宽 / Operation Bandwidth	500MHz
周期 / Cycle	50ms
目标检测数量 / Number of Detectable Targets	64
工作电压 / Operating Voltage	9V~32V
功耗 / Power Consumption	<2.4W
检测距离 / Detection Range	0.2m~160m
测距精度 / Range Precision	±0.1m
距离分辨率 / Range Resolution	0.4m
速度范围 / Speed Range	-110m/s~55m/s
速度精度 / Speed Precision	±0.05m/s
速度分辨率 / Speed Resolution	0.2m/s
水平视场角 / Azimuth FOV	±75°
水平测角精度 / Azimuth Angle Precision	±0.4°
水平测角分辨率 / Azimuth Angle Resolution	4°
垂直视场角 / Vertical FOV	±12°
防护等级 / IP Grade	IP6K9K
尺寸/ Size	61.1mm×58.1mm×18mm
重量/Weight	＜75g

IN CABIN RADAR

舱内毫米波雷达

舱内毫米波雷达安装于车辆内部，采用6发6收方案实现车内目标的高精度探测，可实现儿童存在监测、入侵监测、占位监测功能，满足E-NCAP国际安全标准，兼具高集成度与低功耗特性。

In-cabin radar is installed inside the vehicle, and the radar adopts the scheme of 6 transmitting and 6 receiving to achieve high-precision detection of targets in the vehicle. It can realize the functions of Child Presence Detection,Seat Occupancy Detection and Intruder Detection System, and meet the E-NCAP international safety standard.

应用场景 / Application Scenarios

儿童存在检测
Child Presence Detection

占位检测
Seat Occupancy Detection

入侵检测
Intruder Detection System

产品参数 / Product Parameters

频率 / Frequency	57GHz~64GHz
调制方式 / Modulation Mode	FMCW
收发 / Tx/Rx	6TX+6RX
带宽 / Operation Bandwidth	3GHz
检测距离 / Detection Range	3.36m
距离分辨率 / Range Resolution	0.05m
测距精度 / Range Precision	±0.015m
角度范围 / Azimuth Angle Range	±70°（Horizontal）±60°（Vertical）
角度精度 / Azimuth Angle Precision	±1°（Horizontal） ±1°（Vertical）
速度范围 / Velocity Range	-3.11m/s~+3.11m/s
速度精度 / Velocity Precision	±0.02m/s
通信接口 / Interface	CAN/CANFD/LIN
功耗 / Power Consumption	<1W （防盗入侵模式/Intruder mode<78mW）
防护等级 / IP Grade	IP52
重量 / Weight	45g
尺寸/ Size	48.2mm×44.7mm×14.1mm

BLIND SPOT MONITORING RADAR

盲区监测雷达BSIS

盲区监测雷达能够实现车辆周边180°范围盲区监测与报警提示，帮助驾驶员准确判断实时路况，有效降低事故发生率，大大提升车辆行驶的安全性。

The blind spot monitoring radar can realize the blind zone monitoring and alarm tips in the 180° range around the vehicle, help the driver accurately judge the real-time road conditions, effectively reduce the accident rate, and greatly improve the safety of vehicle driving.

应用场景 / Application Scenarios

盲区监测	变道辅助	开门预警	符合欧标
BSD	LCA	DOW	BSIS & MOIS

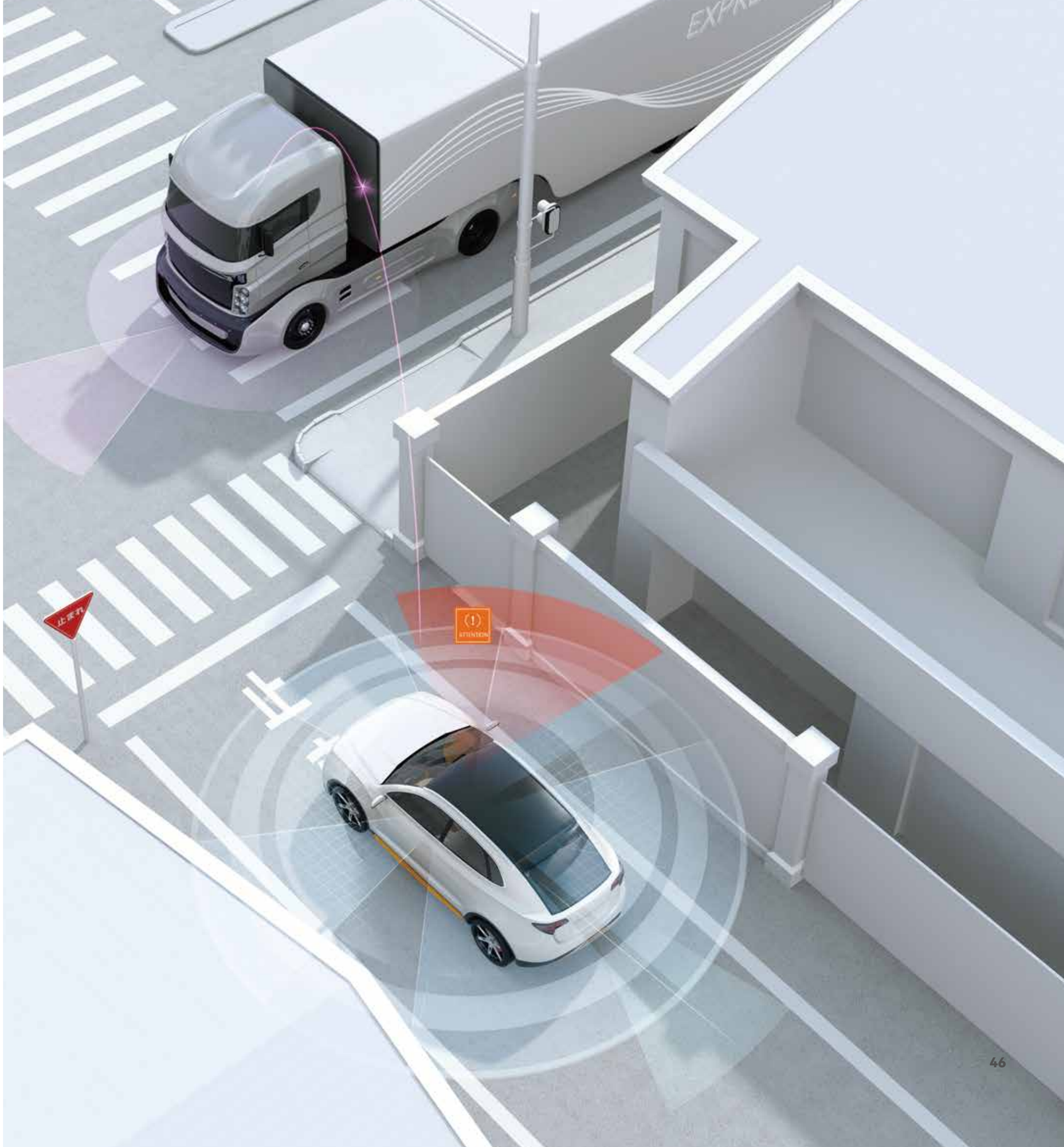
产品参数 / Product Parameters

频率 / Frequency	76GHz~77GHz
调制方式 / Modulation Mode	FMCW
带宽 / Operation Bandwidth	400MHz
周期 / Cycle	50ms
目标检测数量 / Number of Detectable Targets	128
工作电压 / Operating Voltage	9V~32V
功耗 / TDP	<6W
检测距离 / Detection Range	0.2m~150m
测距精度 / Range Precision	±0.1m
距离分辨率 / Range Resolution	0.4m
速度范围 / Speed Range	-110m/s~55m/s
速度精度 / Speed Precision	±0.05m/s
速度分辨率 / Speed Resolution	0.2m/s
水平视场角 / Azimuth FOV	±90°
水平测角精度 / Azimuth Angle Precision	±1°
水平测角分辨率 / Azimuth Angle Resolution	7°
垂直视场角 / Vertical FOV	±10°
防护等级 / IP Grade	IP6K9K
尺寸/ Size	99.3mm×99.1mm×30mm
重量 / Weight	＜200g

03

ULTRASONIC SENSOR SYSTEM

/超声波雷达/



AK1 ULTRASONIC SENSOR SYSTEM

AK1 超声波雷达

UPA / APA 超声波雷达，安装在车辆的前后和侧面，IO通信接口的超声波雷达， 一般前后各4个+侧面各2个，测量侧方障碍物距离，用于自动泊车。探测距离可以达到15~500cm之间，更远的探测距离让APA超声波雷达可以检测左右侧的障碍物，还能根据超声波雷达返回的数据判断停车库位或者路沿是否存在。另外UPA雷达一般也多用于泊车辅助系统

UPA/APA ultrasonic radar is mounted on the front, rear and sides of the vehicle. Usually twelve ultrasonic radars of IO communication interface are mounted, four on the front and rear respectively and two on the left and right side respectively, for detection of the distance of obstacles on sides to assist automated parking. The detection range is 15~500cm, allowing detection of obstacles on the left and right. It can also tell whether there is parking space or curb according to the data obtained. UPA ultrasonic radar is usually used for parking assistance, too.

应用场景 / Application Scenarios

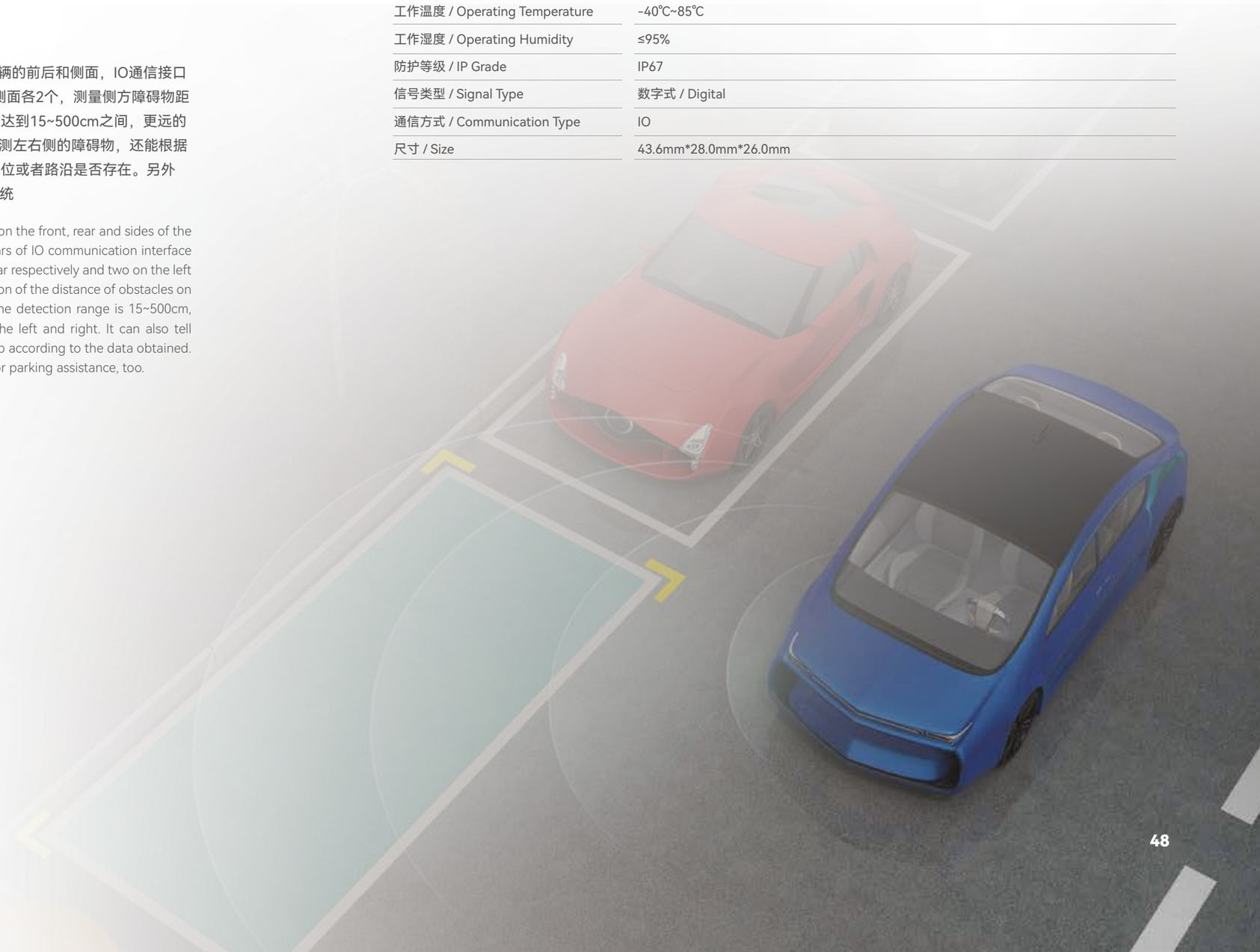
泊车辅助
PAS

自动泊车
APA

盲区监测
BSD

产品参数 / Product Parameters

工作电压 / Operating Voltage	12V（9~16V）
工作电流 / Operating Current	<10mA（平均/ Average），max≤300mA
工作频率 / Frequency（kHz）	58KHz/55KHz/51KHz/48KHz
波束角 / Beam Angle	水平 / Horizontal：90~120deg， 垂直 / Vertical：45~60deg
最大探测范围 / Max Detection	> 500cm
探测盲区 / Blind Area Detection Range	15cm，＜15cm时，可实现存在检知 / When it's ＜15cm, presence can be detected
工作温度 / Operating Temperature	-40℃~85℃
工作湿度 / Operating Humidity	≤95%
防护等级 / IP Grade	IP67
信号类型 / Signal Type	数字式 / Digital
通信方式 / Communication Type	IO
尺寸 / Size	43.6mm*28.0mm*26.0mm



AK2 ULTRASONIC SENSOR SYSTEM

AK2 超声波雷达

DSI3通信的超声波雷达（AK2），一般安装于车辆前后位置各4个 + 侧面各2个，用于自动泊车、自动驾驶。AK2超声波雷达测距能力强，能够满足各类车型搭载智能泊车系统的障碍探测需求；兼备8K调频带宽，可同时发送和接收不同的声波信号，避免同频干扰；信号传播速度快，且能够同步处理多种回波特征值，支持多模式切换，满足智能驾驶迭代至L3、L4级对感知升级的要求。

Usually twelve ultrasonic radars (AK2) of DSI3 communication are mounted, four on the front and rear respectively, and two on the left and right side respectively, for automated parking and driving. With strong ranging ability, AK2 ultrasonic radar can meet the obstacle detection needs of various models equipped with intelligent parking system. Thanks to 8K FM bandwidth, it can send and receive different sound wave signals at the same time to avoid same-frequency interference. The signal transmission speed is fast, multiple echo feature values can be processed synchronously, and multi-mode switching is supported, meeting the perception upgrading requirements of intelligent drive iteration to L3 and L4.

产品参数 / Product Parameters

工作电压 / Operating Voltage	12V（9~16V）
工作电流 / Operating Current	<15mA
工作频率 / Frequency（kHz）	58KHz±3KHz（可变频发波 / Variable Frequency Wave）
波束角 / Beam Angle	水平 / Horizontal：90~120deg， 垂直 / Vertical：45~60deg
最大探测范围 / Max Detection	>550cm
探测盲区 / Blind Area Detection Range	15cm， < 15cm时，可实现存在检知 / When it's < 15cm, presence can be detected
工作温度 / Operating Temperature	-40℃~85℃
工作湿度 / Operating Humidity	≤95%
防护等级 / IP Grade	IP67
信号类型 / Signal Type	数字式 / Digital
通信方式 / Communication Type	DSI3
尺寸 / Size	43.6mm*28.0mm*26.0mm

应用场景 / Application Scenarios

泊车辅助
PAS

自动泊车
APA

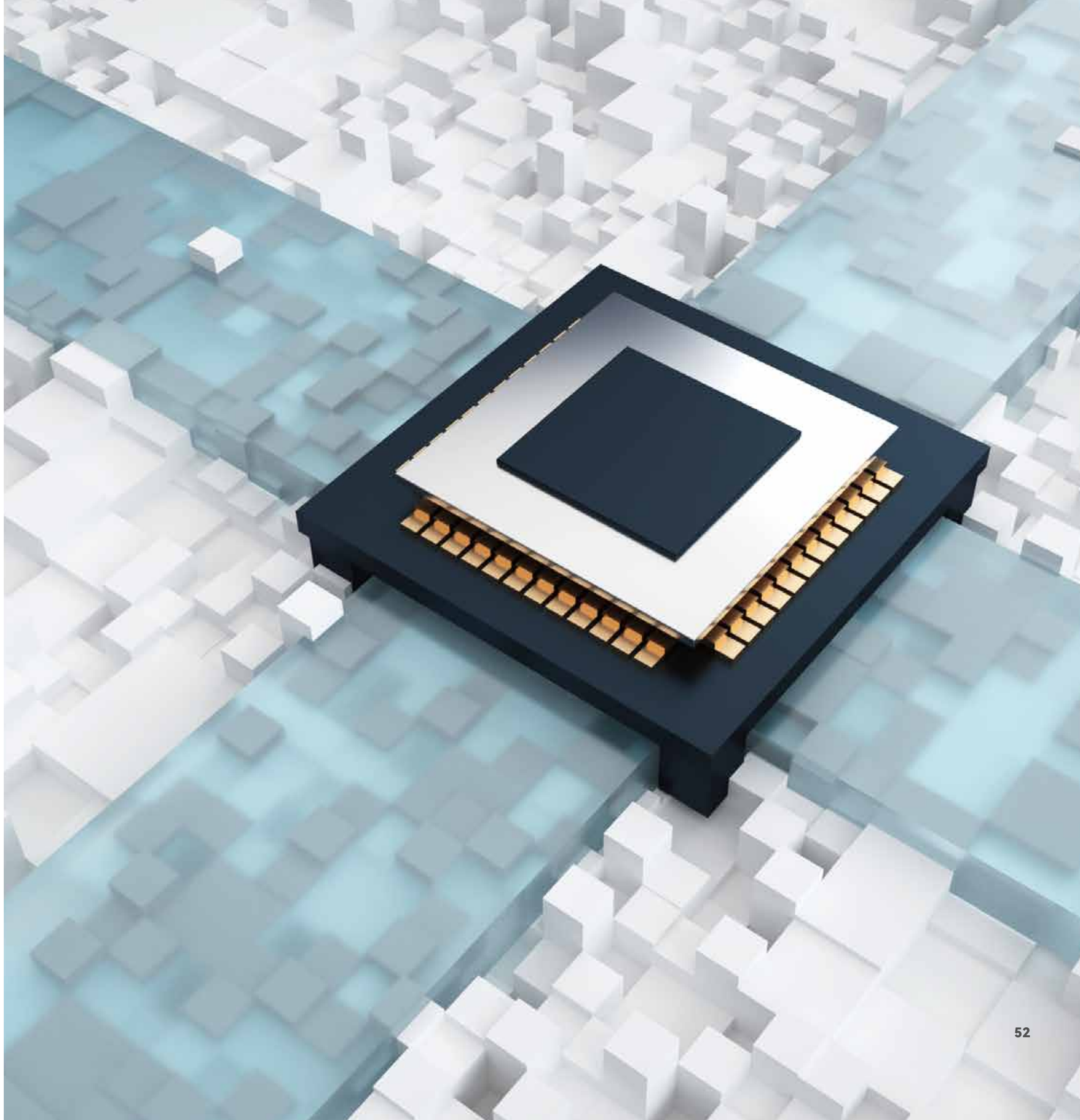
盲区监测
BSD

前方碰撞预警
FCW

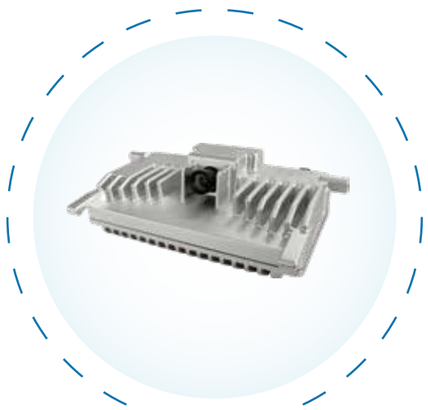
04

SOLUTIONS

/解决方案/



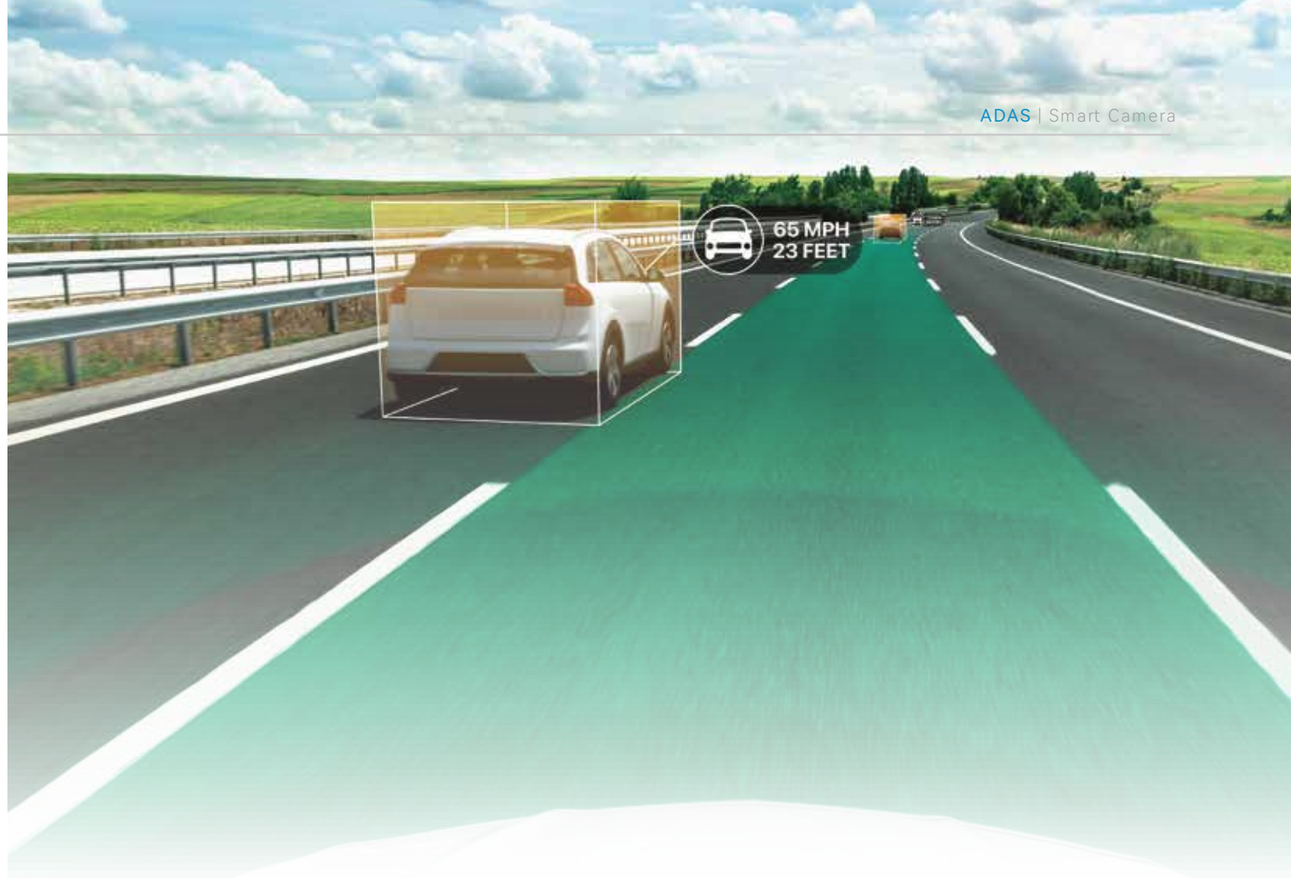
SMART CAMERA
单目一体机 FVCM2.0



ACC支持120KPH对静止目标刹停；
支持识别40m小半径弯道；
支持红绿灯，斑马线，施工区域识别；
支持120° FOV，有效减少视觉盲区；
支持DVR摄像头复用，支持OTA；
支持1V5R扩展，实现拨杆变道；
支持CNCAP2024 5星。

ACC supports braking to stop at 120KPH in the case of stationary objects;
Supports identification of small radius (< 100m) curves;
Supports traffic lights recognition, and construction area reminding;
Supports FOV of 120°, minimizing blind area;
Supports multiple use of DVR camera and OTA;
Support 1V5R expansion, to achieve the lever change;
Supports CNCAP2024 5 stars.

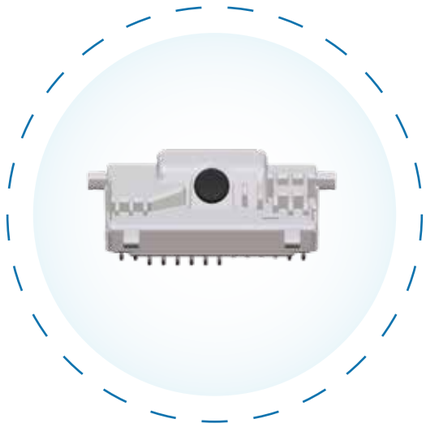
应用场景 / Application Scenarios



产品参数 / Product Parameters

工作电压 / Operating Voltage	12V，6~18V
典型电流 / Operating Current	< 0.9A
典型功耗 / Typical Power Consumption	< 10W
分辨率 / Resolution	3840 x 2160
最高帧率 / Max framerate	30fps
动态范围 / Dynamic Range	140dB， 3或4曝光 / Exposure Exposure 3/4
视场角 / FOV	H-121°, V-54.8°
工作温度 / Operating Temperature	-40°C ~ +85°C
储存温度 / Storage Temperature	-40°C ~ +105°C
防护等级 / IP Grade	IP5X
功能 / Function	TJA/ICA，ACC，LDW/LKA/ELK，FCW/AEB， IHC， TSR...
升级配置 / Optional Configuration	后角雷达：BSD，DOW，RCW，RCTA/RCTB，ELK-overtaking，ILC 前角雷达：FCTA/FCTB

SMART CAMERA
单目一体机 FVCM3.0



该产品是基于国产SOC芯片平台打造的单目前视ADAS解决方案，能够实现SACC（智能自适应巡航）、LCC（车道居中辅助）、LDW（车道偏离警示）、LKA（车道偏离辅助）、FCW（前向碰撞预警）、AEB（前向碰撞制动）、TSR（道路标识识别）、ASL（智能限速控制）、IHBC（智能大灯控制）等L2级智能辅助驾驶系统。结合角雷达目标信息，支持扩展实现ELK（紧急车道保持）、DCLC（拨杆变道辅助）功能。结合DMS信息，支持实现L2强标EOR（视线回归提示）功能。同时支持基于H.254/H.265的视频压缩及感知数据回传和DVR视频输出功能。

This product is a single-monocular forward-looking ADAS solution based on a domestically developed SoC chip platform. It delivers L2-level intelligent assisted driving functions including SACC (Smart Adaptive Cruise Control), LCC (Lane Centering Assist), LDW (Lane Departure Warning), LKA (Lane Keeping Assist), FCW (Forward Collision Warning), AEB (Automatic Emergency Braking), TSR (Traffic Sign Recognition), ASL (Intelligent Speed Limiter), and IHBC (Intelligent High Beam Control). By integrating corner radar target information, it supports the expansion of functions such as ELK (Emergency Lane Keeping) and DCLC (Driver-Initiated Lane Change Assist). When combined with DMS information, it also supports the L2 mandatory EOR (Eyes-on-Road reminder) function. Additionally, it supports video compression and perception data backhaul based on H.264/H.265, as well as DVR video output.

应用场景 / Application Scenarios

自动紧急制动 AEB

前方碰撞预警 FCW

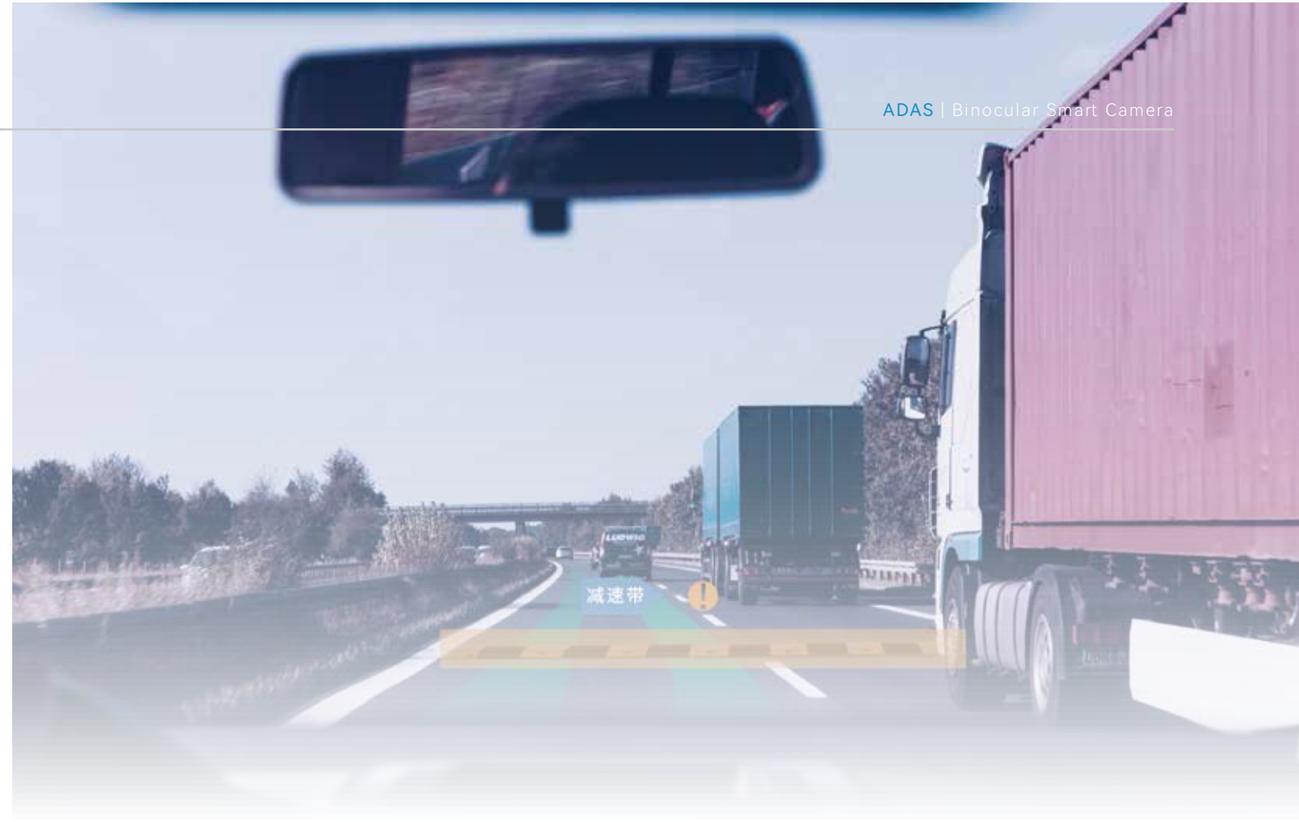
车道偏离辅助 LDW/LKA/ELK

自适应巡航 ACC

交通拥堵辅助 高速智能领航 TJA/ICA

交通标识识别 TSR

智能大灯 IHC

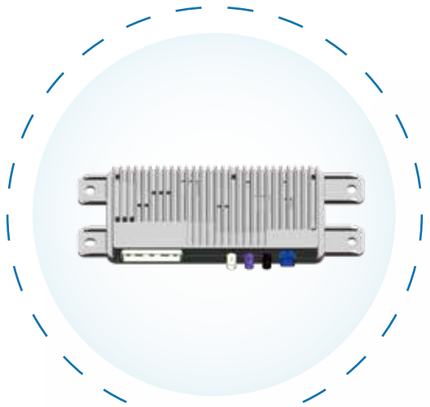


产品参数 / Product Parameters

工作电压 / Operating Voltage	9~16V
静态电流 / Quiescent Current	< 0.1mA
典型功耗 / Typical Power Consumption	< 6.6W
分辨率 / Resolution	1920 x 1080
最高帧率 / Max framerate	30fps
动态范围 / Dynamic Range	140dB
视场角 / FOV	H-100°, V-49°
工作温度 / Operating Temperature	-40°C ~ +85°C
储存温度 / Storage Temperature	-40°C ~ +105°C
防护等级 / IP Grade	IP5X
功能 / Function	TJA/ICA，ACC，LDW/LKA/ELK，FCW/AEB， IHC， TSR...
升级配置 / Optional Configuration	支持DMS、前雷达、角雷达接入扩展

DOMAIN CONTROLLER

行泊一体域控制器ADCU3.0



该产品是基于国产SOC芯片平台打造的行泊一体ADAS解决方案，能够实现SACC（智能自适应巡航）、LCC（车道居中辅助）、LDW（车道偏离警示）、LKA（车道偏离辅助）、FCW（前向碰撞预警）、AEB（前向碰撞制动）、TSR（道路标识识别）、ASL（智能限速控制）、IHBC（智能大灯控制）等行车功能和APA（自动泊车辅助）、RPA（遥控泊车辅助）等泊车功能的智能辅助驾驶系统。结合角雷达目标信息，支持扩展实现ELK（紧急车道保持）、DCLC（拨杆变道辅助）功能。结合DMS信息，支持实现行泊强标EOR（视线回归提示）功能。同时支持基于H.254/H.265的视频压缩及感知数据回传和DVR视频输出功能。

This product is an integrated driving and parking ADAS solution based on a domestically developed SoC chip platform. It delivers intelligent assisted driving functions for driving, including SACC (Smart Adaptive Cruise Control), LCC (Lane Centering Assist), LDW (Lane Departure Warning), LKA (Lane Keeping Assist), FCW (Forward Collision Warning), AEB (Automatic Emergency Braking), TSR (Traffic Sign Recognition), ASL (Intelligent Speed Limiter), and IHBC (Intelligent High Beam Control), as well as parking functions such as APA (Automatic Parking Assist) and RPA (Remote Parking Assist). By integrating corner radar target information, it supports the expansion of functions like ELK (Emergency Lane Keeping) and DCLC (Driver-Initiated Lane Change Assist). When combined with DMS information, it also supports the mandatory EOR (Eyes-on-Road reminder) function for both driving and parking. Additionally, it supports video compression and perception data backhaul based on H.264/H.265, as well as DVR video output.

应用场景 / Application Scenarios

自动紧急制动
AEB

前方碰撞预警
FCW

车道偏离辅助
LDW/LKA/ELK

自适应巡航
ACC

交通拥堵辅助
高速智能领航
TJA/ICA

交通标识识别
TSR

智能大灯
IHC

自动泊车
APA

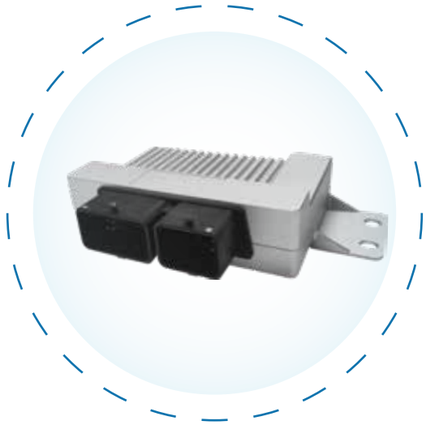
远程泊车
RPA

产品参数 / Product Parameters

工作电压 / Operating Voltage	9~16V
静态电流 / Quiescent Current	< 0.1mA
典型功耗 / Typical Power Consumption	< 16W
传感器 / Senors	5V12U
工作温度 / Operating Temperature	-40°C ~ +85°C
储存温度 / Storage Temperature	-40°C ~ +105°C
防护等级 / IP Grade	IP5X
功能 / Function	TJA/ICA，ACC，LDW/LKA，FCW/AEB， IHC， TSR... APA、RPA
升级配置 / Optional Configuration	支持DMS、前雷达、角雷达接入扩展 PintoPin SOC芯片升级 不同前视、环视、超声波规格适配

INTELLIGENT SUSPENSION CONTROLLER

智能悬架控制器



智能悬架控制器作为悬架系统的核心部件，能够针对驾驶员需求、车辆状态和路面形态，同步控制空气弹簧系统和电控减振器系统，全面调节悬架高度、刚度和阻尼，提升驾乘品质。

As the core component of the suspension system, the intelligent suspension controller can synchronously control the air spring system and the electronic damper system， according to the driver's demand, vehicle state and road shape, comprehensively adjust the suspension height, stiffness and damping, and improve the driving quality.

产品参数 / Product Parameters

功能安全目标 / Functional Safety Goal	ASIL B
网络安全（R155/R156) / Cyber Security （R155/R156)	支持 / Support
AUTOMOTIVE SPICE流程体系 / Process System	ASPICE-CL2
CDC驱动 / CDC Driver	4通道 / 4 Channels
空簧驱动 / ECAS Driver	11通道 / 11 Channels
PSI5通信 / PSI5 Communication	支持 / Support
内置IMU / Built-In IMU	支持 / Support
AUTOSAR	支持 / Support
OTA软件升级、AB备份 / OTA Software Upgrading 、AB Back Up	支持 / Support
定期唤醒 / Timed Wake-Up	支持 / Support
睡眠电流 / Sleeping Current	≤ 0.1mA
CAN通讯 / CAN Communication	2路CAN / 2-Channels CAN
模拟信号接口 / Analog Signal Interface	支持 / Support
PWM信号接口 / PWM Signal Interface	支持 / Support
标定接口 / Calibration Interface	XCP
安装位置 / Installation Position	驾驶舱或尾舱 / Cockpit or After Compartment
工作环境温度 / Operating Ambient Temperature	-40℃ ~ +85℃
储存温度 / Storage Temperature	-40℃ ~ +105℃
振动等级 / Vibration Level	2.8g随机振动@10-1000HZ / 2.8g Random Vibration @10-1000hz
防尘防水等级 / Dustproof and Waterproof Class	IP6K7/IP5K2

应用场景 / Application Scenarios

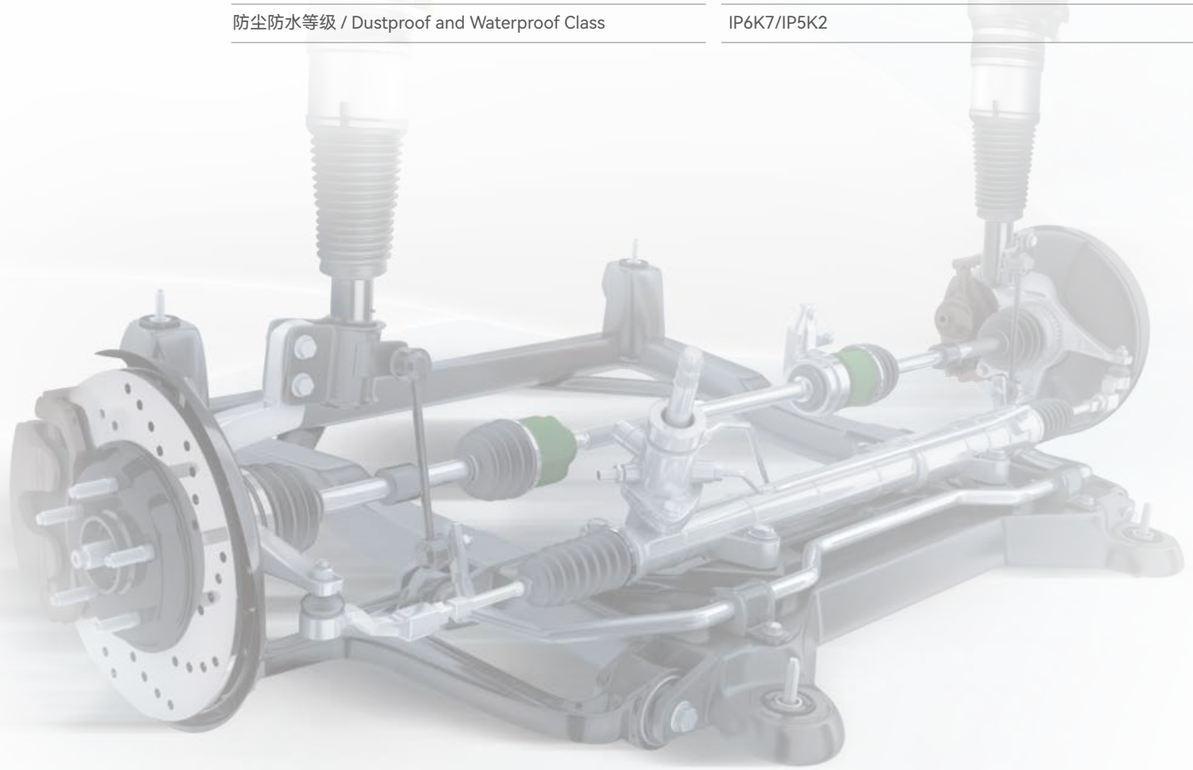
悬架高度随车速调节
Suspension Height Adjusted With The Vechile Speed

轻松载物
Easy Load

便利下车
Convenient Drop-Off

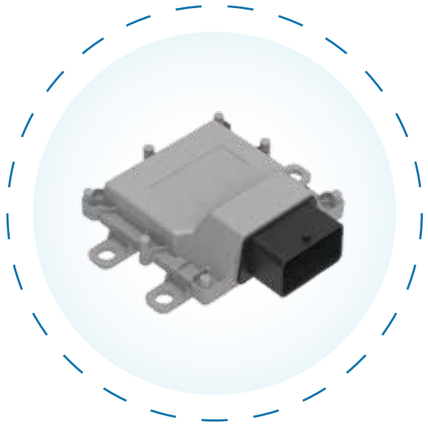
悬架刚度瞬间切换
Suspension Stiffnes Switch Instantly

悬架阻尼实时调节
Suspension Damping Is Adjusted In Real Time



ELECTRONICALLY CONTROLLED DAMPING

ECD电控减振控制器



ECD电控减震控制器通过车身加速度传感器、车轮加速度传感器等设备，实时计算并调节减震器阻尼系数，实现悬挂软硬度的动态调整，增强车身支撑性以抑制侧倾和俯仰，提升操控稳定性。

ECD (Electronically Controlled Damping) system dynamically calculates and adjusts the damper damping coefficient in real-time through sensors such as body acceleration sensors and wheel acceleration sensors. This enables real-time adjustment of suspension stiffness, enhances body support to suppress roll and pitch, and improves handling stability.

应用场景 / Application Scenarios

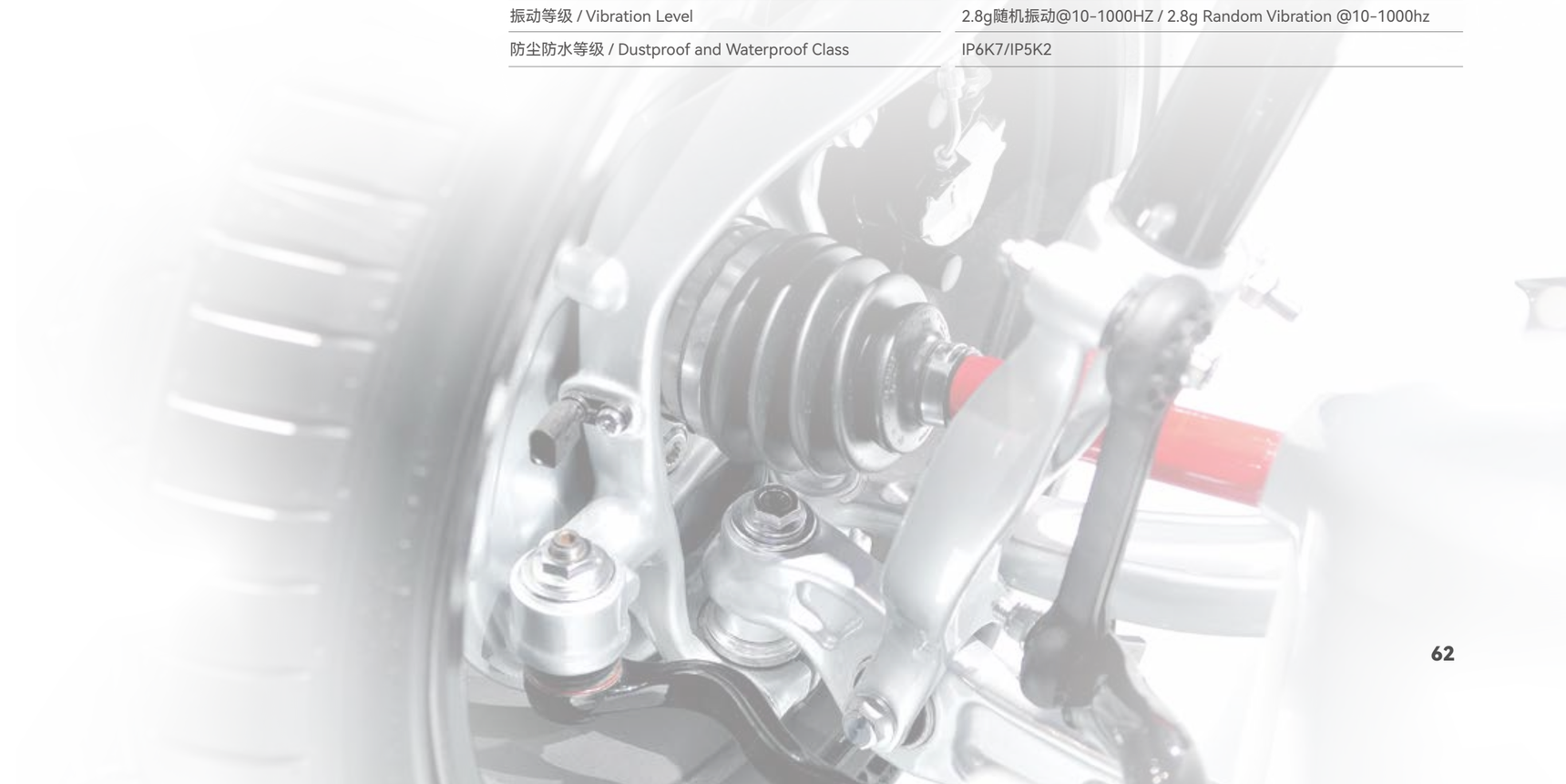
非稳态行驶场景
Non-Steady-State Driving Scenarios

增强车身支撑性
Enhances body support

悬架阻尼实时调节
Suspension Damping Is Adjusted In Real Time

产品参数 / Product Parameters

功能安全目标 / Functional Safety Goal	QM
网络安全（R155/R156) / Cyber Security （R155/R156)	支持 / Support
AUTOMOTIVE SPICE流程体系 / Process System	ASPICE-CL2
ECD驱动 / ECD Driver	4通道 / 4 Channels
PSI5通信 / PSI5 Communication	支持 / Support
内置IMU / Built-In IMU	支持 / Support
AUTOSAR	支持 / Support
OTA软件升级、AB备份 / OTA Software Upgrading 、AB Back Up	支持 / Support
定期唤醒 / Timed Wake-Up	支持 / Support
睡眠电流 / Sleeping Current	≤ 0.1mA
CAN通讯 / CAN Communication	2路CAN / 2-Channels CAN
模拟信号接口 / Analog Signal Interface	支持 / Support
PWM信号接口 / PWM Signal Interface	支持 / Support
标定接口 / Calibration Interface	XCP
安装位置 / Installation Position	驾驶舱或尾舱 / Cockpit or After Compartment
工作环境温度 / Operating Ambient Temperature	-40℃ ~ +85℃
储存温度 / Storage Temperature	-40℃ ~ +105℃
振动等级 / Vibration Level	2.8g随机振动@10-1000HZ / 2.8g Random Vibration @10-1000hz
防尘防水等级 / Dustproof and Waterproof Class	IP6K7/IP5K2



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