产品优势 Competitive Advantages

车规级硬件 Automotive Grade

MINIEYE X1 作为一款车规级专业ADAS产品，满足前装客户对于硬件的最高要求。
MINIEYE develops hardware to meet the full qualification process according to the highest automotive standards.

支持多传感器融合 Sensor Fusion

MINIEYE X1支持与毫米波雷达、激光雷达等其他传感器的信号融合，为更好地支持涉及控制的ADAS功能，比如自动紧急制动(AEB) ,自适应巡航(ACC)和车道保持辅助(LKA)等, 奠定了坚实基础。
MINIEYE X1 has the capacity to support the fusion with other sensors, in order to achieve a higher level of autonomous driving features, for example, AEB, ACC and LKA.

定制化服务 Customized Development

为了更好地满足前装客户的需求，我们将提供更友好、快捷的定制化服务。
We provide prompted responses and a more customer-centered service, to completely satisfy our clients’ needs.

支持多样系统集成 System Integration

MINIEYE X1能根据前装客户的需要，通过灵活的集成方式，与多样的车内系统进行整合。
MINIEYE X1 has the capacity to integrate with other automotive systems.

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MINIEYE X1
前装主动安全预警系统
Automotive Grade Advanced Driver Assistance System

MINIEYE
深圳佑驾创新科技有限公司

预警功能 Alert Types

MINIEYE X1是一款车规级前装主动安全预警产品。它包含以下预警功能：
The MINIEYE X1 is an automotive grade Advanced Driver Assistance System that has the following alerts:

前向碰撞预警 Forward Collision Warning (FCW)

通过计算当前速度下与前车的碰撞时间，可最早提前2.7秒警告驾驶员潜在的追尾危险，提醒驾驶员减速。
Alert the driver of critical situation where a rear-end collision is imminent (within up to 2.7 seconds).

车道偏离预警 Lane Departure Warning (LDW)

实时监测当前车道线及车辆运动轨迹，当驾驶员偏离当前车道并没有打转向灯时发出警报，提醒驾驶员保持在安全车道上。
此功能仅在速度大于55km/h时开始工作。
Alert the driver when the vehicle unintentionally departs from the driving lane. An unintentional departure is defined by departing from the driving lane without using the turn signals.
The LDW is active at speeds greater than 55km/h.

前车距离监控 Headway Monitoring and Warning (HMW)

实时对前车进行监控，当车距过近时发出警告，提醒驾驶员保持安全车距。车距会以时间方式（单位：秒）显示。
车距数字图标和声音警告仅在速度大于30km/h时开始工作。
Display the distance (in seconds) to the vehicle in front and alerts up the driver if the time becomes dangerously short.
The numerical headway display and the audio alert are operational only at speeds greater than 30 km/h.

行人碰撞预警 (可选) Pedestrian Collision Warning (PCW) (Optional)

提醒驾驶员潜在的行人碰撞危险。
Provide an alert when a pedestrian crosses the vehicle's path.

限速标志识别 (可选) Speed Limit Indicator (SLI) (Optional)

检测路面多种限速标志，并在车辆超速时给予提醒。
Detect various speed limit signs and provides an alert when the vehicle's speed exceeds the posted speed limit.

产品规格Technical Specification

处理器单元 Processing Unit

处理器 CPU	Cortex-A9 2-core
加速器 Accelerator	Artix®-7 FPGA
闪存 Flash Memory	1G bit SLC
内存 Memory	512M Byte DDR3

注: 处理器芯片等 IC都符合车规 AEC-Q100 要求。
Additional Notes: All integrated circuits are automotive grade and AEC-Q100 qualified

数据接口 Data Interface

行驶状态输入 Car Inputs	CAN	支持 Yes
	模拟信号输入 Analog Signals	支持左右转向灯信号 Left/Right Turn Signal
告警信号输出 Alert Outputs	CAN	支持 Yes

协议适配请与官方技术支持确认;
For more information on data protocol, please contact MINIEYE Technical Support: contact@minieye.cc

摄像头模组 Camera Module

视觉传感器 Vision Sensor	AR0132 RGB (AEC-Q100 qualified)
动态范围 Dynamic Range	>115dB
有效像素 Active Pixels	1280x960
快门类型 Shutter Type	Rolling shutter
视场角 Field of View	52°

电气参数 Electrical Characteristics

额定电压 Input Voltage	7~36V DC
额定功率 Power Rating	4W

环境参数 Environmental Characteristics

高低温工作 Operating Temperature	-40°C~95°C
储存温度 Storage Temperature	-40°C~105°C

物理参数Physical Characteristics

长宽高 Length, Width& Height	主机 Main Unit	116x76x43.4mm
长宽高 Length, Width& Height	显示器 Display Unit	51.3x50x25.8mm (折叠 Leg Closed); 51.3x50x58.8mm (展开 Leg Open)
摄像头可调角度 Windshield Angle Range		21~90°
材质 Case Material		塑料、铝合金 Plastic, Aluminum