

VIA Mobile360 ADAS



VIA Mobile360 ADAS (Advanced Driver Assistance System) is a road safety-enhancing solution with an intuitive HMI interface that keeps drivers alerted to constantly-changing road variables under a wide array of conditions to make their journey as safe and efficient as possible. It also enables operators to boost the efficiency of their fleets by optimizing journey times and delivery turnarounds and reducing repair, maintenance, and insurance liability costs.

Featuring four automotive-grade FOV-50 cameras, VIA Mobile360 ADAS supports a complete range of ADAS features including :

- Lane Departure Warning
- Forward Collision Warning
- Blind Spot Detection
- Pedestrian Detection
- Vehicle Detection and Classification
 - Special Vehicles
 - Motorcycle
 - Bicycle
- Speed Limit Detection
- Rear-end Collision Avoidance

With a robust and versatile system design that has been optimized for the most demanding on-road conditions, VIA Mobile360 ADAS is an ideal solution for a wide variety of applications, including :

- Refuse Collection
- Armored Cars & Secure Freight Shipping
- Buses and Coaches
- Freight Transportation & Delivery
- Construction, Industrial, & Mining
- Agriculture & Forestry

A wide array of customization options is available to meet specific usage requirements in almost any environment.

VIA Mobile360 ADAS System

Lane Departure Warning



Forward Collision Warning



Rear-end Collision Avoidance



Blind Spot Detection



Speed Limit Detection



With its ruggedized chassis, extended temperature support, and flexible voltage input, the VIA Mobile360 ADAS system has been specifically designed for the rigors of in-vehicle operation. Key features include :

- Integrated 4G modem and GPS for remote wireless tracking and monitoring
- Support for up to six CSI/PoC cameras through six FAKRA connectors
- Real-time encoding for clouds / local storage
- 512GB SSD (-40°-90°) local storage
- Optional 7" HD resistive touch screen with VESA mount support
- 5+ years' longevity with vitality support and locked BOM option
- Hardware and software customization options

— VIA Mobile360 E-Track —



VIA Mobile360 ADAS also features VIA Mobile360 E-Track, a cloud portal that enables fleet owners to collect and organize vehicle and driver data for real-time vehicle tracking, event and data recording, and asset management. Customizable event triggers keep managers informed of critical situations so that they can respond immediately, while a user-friendly graphical interface makes analysis of trip reports a breeze. Key features include :

- Real-time route tracking
- Real-time monitoring with event notifications
- Event and data recording
- Individual camera stream and video recording

Enhanced E-Track Computer Vision features can be added through the integration of up to two additional FOV-50 cameras, including :

- Driver monitoring
- Cargo monitoring
- License plate detection

VIA Mobile360 ADAS System Cameras

VIA Mobile360 ADAS is equipped with four automotive-grade FOV-190 cameras. Two additional FOV-50 cameras can be integrated into the system for to enable Computer Vision capabilities. Key features of the cameras include :



FOV-50 Camera

- Sensor : OmniVision OV10640 (1.3MP)
- IP67 Certified
- FOV : 80°
- Horizontal Angle : 79.2° Typ.
- Vertical Angle : 53.1° Typ.
- Image Size : 1280 (H) x 1080 (V) @ 30fps
- Operating Temperature : -40°C to 85°C
- Output Formats : LVDS / YUV
- Manufacturer : Sharp

VIA Mobile360 ADAS Sample Kit

The VIA Mobile360 ADAS is available in the following base configuration :

Item	Description	Qty	Price
VIA Mobile360 System	Ruggedized VIA Mobile360 System supporting : - Six FAKRA connectors for real-time camera inputs - 512GB SSD (-40-90) for event storage - 4G modem for remote access	1	US\$ 1,800
FOV-50 Cameras	Sharp 1.3MP FOV-50 automotive-grade camera including 10M FAKRA cable	4	US\$ 2,000
7" Monitor	7" automotive-grade HD resistive touch monitor with VESA mount support	1	US\$ 400
			Total : US\$ 4,200

VIA Mobile360 ADAS Sample Kit Expansion Options

The functionality of VIA Mobile360 ADAS can be expanded through the integration of up to two additional automotive-grade FOV-50 cameras to enable advanced Computer Vision features such as driver monitoring, cargo monitoring, and licenses plate recognition.

Item	Description	Unit Price
FOV-50 Camera	Sharp 1.3MP FOV-50 automotive-grade camera including 10M FAKRA cable	US\$ 500

VIA Mobile360 ADAS System Calibration

VIA provides full range of calibration services to optimize the installation of the VIA Mobile360 ADAS system and cameras. More information is available upon request.



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