

# VTK

Drive Smart. Stay Connected

# Mobile Vision



Vecow

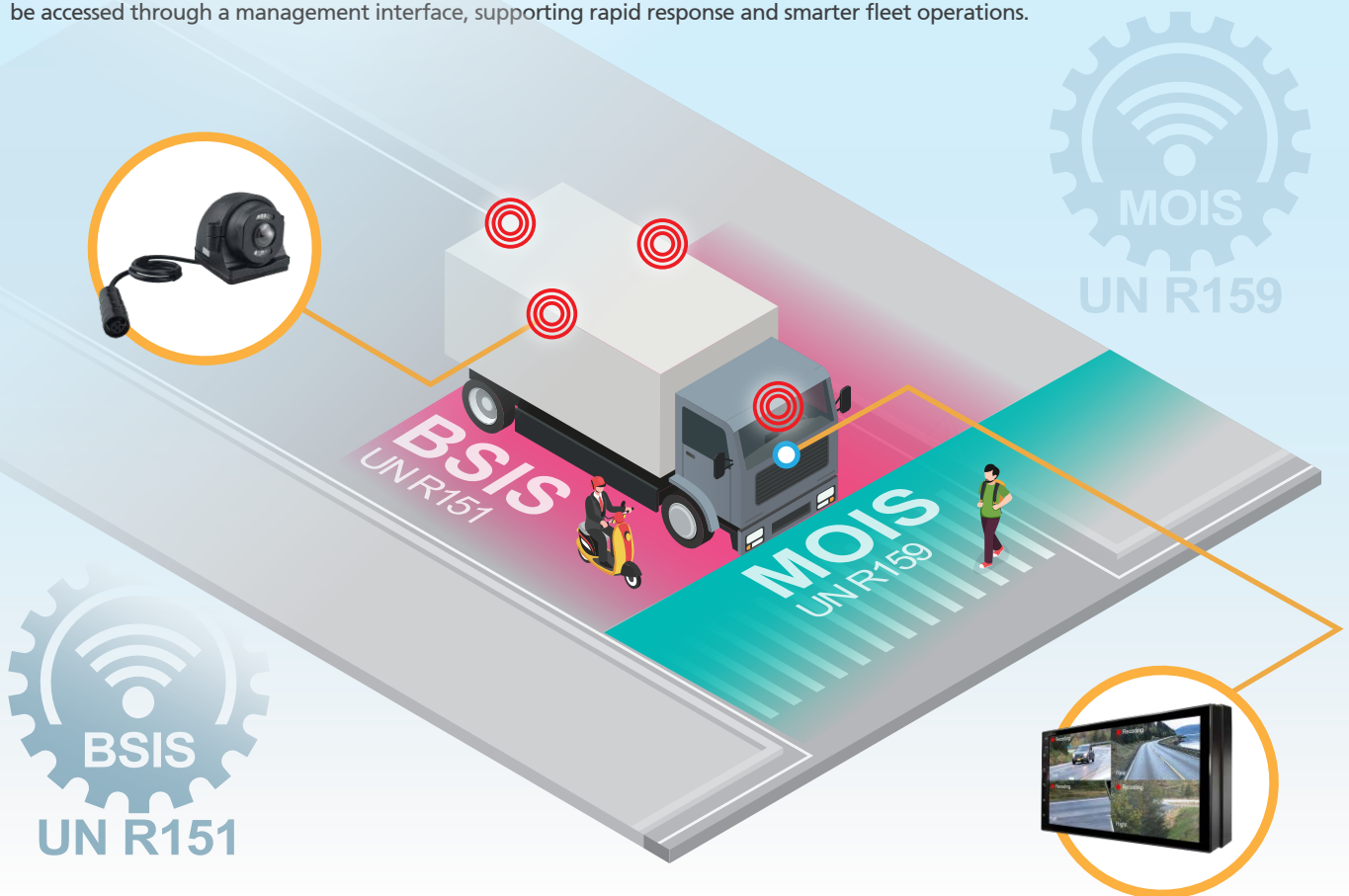


**VTK**  
Mobile Vision

# VTK Mobile Vision

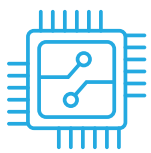
The Mobile Vision is a smart in-vehicle imaging solution designed for use in commercial vehicles, fleet systems, and next-generation mobility platforms. It utilizes high-definition external cameras and an automotive-grade processor to capture real-time driving footage, monitor vehicle surroundings, and assist with navigation and system diagnostics in a single integrated unit.

The system combines multimedia playback, voice assistance, and live vehicle status display, enhancing both safety and driver awareness. With built-in Wi-Fi, Bluetooth, Apple CarPlay, and Android Auto (on request), it ensures seamless connectivity and intuitive operation. Standard vehicle protocols like CAN Bus are supported, while rich I/O interfaces enable flexible expansion. Information can be accessed through a management interface, supporting rapid response and smarter fleet operations.



## Ready to use Edge AI Solution

VTK is a turn-key solution product that enables AI applications at the edge, such as traffic vision, surveillance, and factory automation. It enables real-time AI inferencing including video analytics, object recognition, and data processing, empowering businesses to make informed decisions swiftly with precision.



### Industrial Grade Hardware

Enhanced reliability, durability, and performance providing long-lasting value to businesses.



### Easy Deployment

Ready to use system integrated AI platforms with pre-trained models and tools.



### Comprehensive Ecosystem

Diverse of hardware and software combinations suitable for all application scenarios.



### Enterprise Reliability

User friendly, seamless and dependable operations for your business.



# Application Scenario

## Smart Driving Assist

Integrates multi-channel video input, real-time telemetry visualization, and voice interface support into a compact IVI solution. It is fully compatible with Apple CarPlay and Android Auto (on request), and supports wireless connectivity, enabling flexible deployment in next-generation smart cockpit systems.



- Multi-camera recording for safety and incident tracking
- Real-time display of key vehicle metrics
- Voice control for hands-free navigation and operation
- Smartphone system integration (CarPlay/Android Auto on request)
- Wi-Fi/Bluetooth for media and device connectivity
- Intuitive interface for navigation, calls, and media
- Enhances driver awareness and in-car experience



## Fleet Safety Intelligence

For commercial fleets, Mobile Vision uses multi-camera recording and real-time vehicle monitoring to improve safety and incident tracking. It reduces operational risks, enhances accident analysis, and supports remote fleet management for efficient monitoring and dispatch.

- Synchronized multi-camera recording for complete driving documentation
- Real-time monitoring of vehicle status (speed, signals, brakes)
- Video and data support for accident review and analysis
- Remote platform for live fleet tracking, dispatch, and alerts
- Minimizes human error, improving fleet safety and efficiency
- Driver behavior analysis for training and risk management



# Application Scenario

## Urban Mobility Platform

Ideal for buses, shuttles, and delivery vehicles, the system offers real-time navigation, multimedia playback, and voice assistance to enhance driver convenience. Vehicle condition monitoring and video recording help ensure passenger safety and maintain high transportation quality.

- Accurate real-time navigation with traffic updates
- Multimedia playback for announcements and infotainment
- Voice control for hands-free, safer driving
- Monitors key vehicle diagnostics (fuel, battery, tires)
- Multi-camera recording for safety and incident tracking
- Driver alerts for abnormal vehicle conditions
- Data logging for route, stops, and delivery performance



## Smart Vehicle Link

Whether for commercial or non-commercial vehicles, the system features built-in Wi-Fi, Bluetooth, and abundant I/O interfaces. It supports standard automotive protocols such as CAN Bus, enabling remote vehicle status monitoring, OTA updates, and peripheral expansion, thereby enhancing overall system flexibility and intelligence.



- Flexible I/O for sensor and peripheral integration
- Supports automotive protocols (e.g., CAN Bus)
- Remote monitoring and diagnostics
- Supports OTA software/firmware updates
- Expandable design for future hardware integration
- Enables flexible, smart vehicle management





# Product Specification

## For Standard VTK Mobile Vision, We provide...



Main System

### MVS-1000

- Mediatek MT6761 Series In-Vehicle Infotainment System
- 9V to 36V wide range DC Power Input
- Up to 32GB eMMC, 1GB LPDDR3
- All in One 7" TFT LCD, Resolution (1024 x 600)
- 1 Micro SD Up to 128GB, 1 USB Up to 128GB
- 1 Micro USB for OTG, 1 CANBUS for Vehicle Status
- 1 GPS Position, 1 RF Tuner, 1 Mic In, 2 Audio Out
- Operating Temperature -20°C to 70°C

### CAM-1000

- Mobile AI Cameras (Pedestrian + Vehicle Detection)
- 1/2.9" Progressive scan RGB CMOS Pixel size 2.8  $\mu\text{m}$
- 1920(H) x 1080 (V)
- 120° Field of view
- IP67 Weather Resistant
- 8 Units IR LEDs



Camera X 4



We support custome hardware configuration and AI applications, please contact Vecow at [sales@vecow.com](mailto:sales@vecow.com) for more detail.