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# Vahana Kavach Series

 **Powered by LiFePO4**  
Safe | Stable | Long Life

Solar-backed safety and connected mobility platform

The Vahana Kavach Series is a modular product family for commercial vehicles that brings together compliant tracking, power continuity, vision, smart interface and optional intelligence—built to keep fleets safer, connected and always on.

Core continuity device for every trip.



 **POWER CONTINUITY**

 **SAFETY FIRST**

 **VISION EVIDENCE**

 **CONNECTED FLEETS**

## MODULAR BY DESIGN. BUILT FOR FLEETS.



**VK-140 Rakshak**  
Compliant tracking core



**VK-Surya**  
Solar power continuity module



**VK-Drishti**  
Camera module



**Drishti Surya+**  
Camera + solar integrated flagship



**Next Gen**  
Smart driver interface



**Garuda AI**  
Optional intelligence layer

## WHAT THE PLATFORM DELIVERS



**Compliant core**

Built for regulatory compliance and audit-readiness.



**Solar-backed uptime**

Uninterrupted protection with intelligent power continuity.



**Camera evidence**

Reliable video capture for every incident and event.



**Smart interface**

Driver-facing status, alerts and intuitive information.



**Service-ready design**

Engineered for easy installation, diagnostics and lifecycle support.



**Scalable upgrades**

Modular building blocks to grow with your fleet needs.

## PRODUCT FAMILY AT A GLANCE



**COMPLIANCE**  
VK-140 Rakshak



**CONTINUITY**  
VK-Surya



**VISION**  
VK-Drishti



**INTEGRATED**  
Drishti Surya+



**INTERFACE**  
Next Gen



**AI INTELLIGENCE**  
Garuda AI



**LiFePO4 TECHNOLOGY**  
Safe, stable and long life



**POWER CONTINUITY**  
Always on for every trip



**ENGINEERED FOR FLEETS**  
Rugged, reliable, service-ready



**CONNECTED MOBILITY**  
One platform. Complete control.

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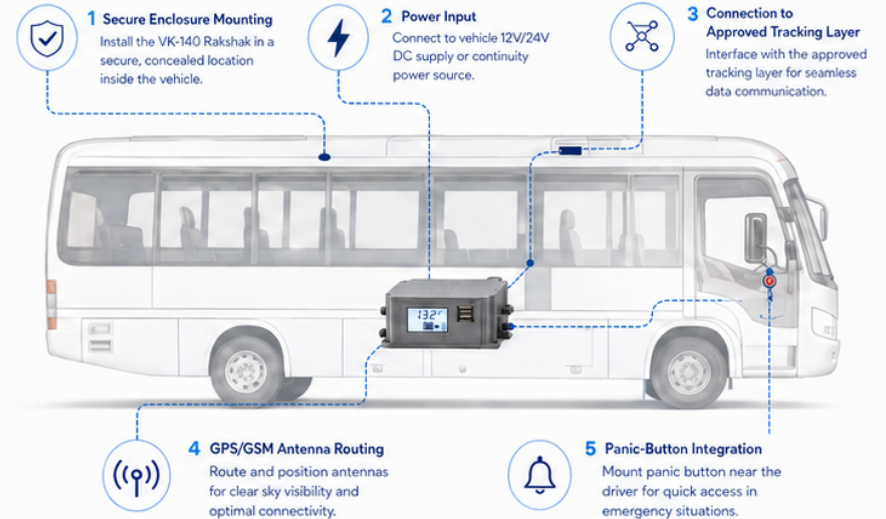
# VK-140 Rakshak

## Compliant tracking core

The VK-140 Rakshak is a compact, rugged tracking core engineered for commercial vehicles. It serves as the reliable heart of your connected fleet, enabling accurate tracking and seamless integration with the approved tracking layer.



### RECOMMENDED INSTALLATION POINTS



### KEY FEATURES



**Compliance-ready core**  
Designed to integrate with the approved tracking layer for regulatory compliance.



**Compact rugged enclosure**  
Durable build for reliable performance in harsh vehicle environments.



**Stable low-power operation**  
Engineered for consistent operation with minimal power draw.



**Tamper-aware installation**  
Supports secure mounting practices to help deter unauthorized access.



**Service-friendly design**  
Easy access and connectivity for faster installation and maintenance.

### BEST SUITED FOR



School Bus



Staff Bus



Ambulance



Mini Bus



Truck

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# VK-Surya

## Solar power continuity module

Keep critical systems online with clean solar power. VK-Surya intelligently harvests solar energy, stores it in a protected LiFePO4 pack, and delivers stable 12V DC power to essential devices—whenever you need it.

 **Powered by LiFePO4**  
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- 1 Rooftop solar panel**  
Flexible, low-profile panel for clean energy harvest.
- 2 Hidden control box mounting**  
Compact module securely mounted out of sight.
- 3 Power path to critical systems**  
Reliable power to tracking, panic, camera and driver display.

**4 Driver display interface**  
Real-time system status at a glance.



**VK-Surya**  
12.8V 36Ah LiFePO4 battery pack with integrated BMS

Backup duration depends on connected load, sunlight, and operating conditions.

-  **Solar-backed uptime**  
Harness solar energy to extend system availability.
-  **Stable DC power continuity**  
Regulated 12V output for uninterrupted operation.
-  **Integrated BMS protection**  
Advanced battery safety and protection built in.
-  **Compact module design**  
Small form factor, powerful performance.
-  **Fitment-friendly architecture**  
Easy to integrate into existing vehicle platforms.

### HOW VK-SURYA WORKS



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# VK-Drishti

Vehicle camera module

Compact and dependable camera module designed for commercial vehicles. Delivers clear, reliable video capture for safety, monitoring and on-road evidence.

- FHD**  
FHD 1080P Resolution
- Day / Night Visibility**  
Day / Night Visibility
- Bus-Grade Durable Build**  
Bus-Grade Durable Build
- Wide Angle Coverage**  
Wide Angle Coverage



**Powered by LiFePO4**  
Safe | Stable | Long Life

## OPTIMISED COVERAGE. SMART INSTALLATION.

- Front Road View Camera**  
Captures clear forward road view for safer operations.
- Cabin / Passenger Area Camera**  
Monitors passengers and cabin activity for safety and compliance.
- Rear / Cargo View Camera**  
Provides rear or cargo area visibility for reversing and safety.
- DVR / Evidence Connection**  
Connected to in-vehicle DVR for recording, storage and evidence management.

## KEY BENEFITS

- Video Evidence**  
Captures critical events with time-stamped video for accurate evidence.
- Day / Night Visibility**  
Infrared night vision delivers clear images in low light.
- Fleet Incident Documentation**  
Helps document and review incidents for improved accountability.
- Familiar Bus-Grade Design**  
Compact, robust form factor built for commercial vehicles.
- Seamless with Vahana Kavach**  
Easy integration with the Vahana Kavach platform for complete fleet visibility.

## CONNECTED FOR COMPLETE VISIBILITY



Cameras connect to Vahana Kavach DVR for secure recording, local storage and seamless platform integration.

- Record
- Store
- Protect
- Review
- Share

## SUITABLE FOR

A wide range of commercial vehicles across essential mobility segments.



- VAHANA KAVACH SERIES**  
Solar-backed safety and connected mobility platform.
- POWER CONTINUITY**  
Always on for every trip.
- SAFETY FIRST**  
Designed for people and assets.
- VISION EVIDENCE**  
Clear video for awareness and protection.
- CONNECTED FLEETS**  
Real-time visibility and insights.
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# Drishiti Surya+

Integrated solar + camera continuity bundle

Continuity power. Camera evidence. Always on.

Drishiti Surya+ combines rooftop solar, a LiFePO4 power module and integrated camera to deliver uninterrupted uptime and reliable video evidence for every trip.






 **Rooftop Solar Panel**  
Compact. Flexible.  
High efficiency.

 **Camera Fitment**  
Front | Cabin | Rear  
360° coverage for complete evidence.

 **Protected Power Module**  
LiFePO4 battery with integrated BMS.  
Safe. Stable. Reliable.

 **Regulated Power to Active Safety Devices**  
Consistent power for ADAS, DVR, and telematics.

-  Continuity Power
-  Camera Evidence
-  Always On




Compact Flexible  
Rooftop Solar Panel



LiFePO4 Battery &  
Control Module



Bus-Grade Camera  
Module

 **Uninterrupted Uptime**  
Solar + LiFePO4 power ensures continuous operation of low-power devices on every trip.

 **Integrated Camera Evidence**  
Front, cabin and rear camera support with stable power for reliable recording and storage.

 **Compact Modular Design**  
All-in-one, rugged and compact module. Built for vehicle environments.

 **Fitment-Friendly Package**  
Designed for easy installation on multiple vehicle types with minimal downtime.


 **Scalable & Future-Ready**  
Upgrade seamlessly to Next Gen interface and unlock AI intelligence with Garuda AI.

 **LiFePO4 TECHNOLOGY**  
Safe, stable and long life

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# Next Gen

## Smart driver interface

A connected cockpit experience that brings live visibility, system intelligence and driver control—right where it matters.

- Better driver awareness**  
Live road, cabin and cargo visibility for confident driving.
- Real-time visibility**  
Multi-camera streaming, GPS tracking and instant alerts.
- System status at a glance**  
Battery, solar, panic and tracking—always in view.
- Cleaner decision support**  
Actionable insights that reduce distractions and response time.
- Fitment-ready architecture**  
Designed for commercial fleets. Quick to install. Easy to scale.



Driver display mount  
Optimised line of sight for maximum safety.

Camera inputs  
Multiple camera support for complete coverage.

Panic button  
Instant access in critical moments.

Hidden control box  
Secure, tamper-resistant installation.

Regulated power source  
Reliable power from LiFePO4 backup system.

### BUILT WITH TRUSTED NEXT GEN COMPONENTS



**Driver Display**  
High-brightness screen with anti-glare for all lighting conditions.



**HD Camera System**  
Wide-angle, vibration-resistant cameras for 360° coverage.



**Control Box**  
Compact, rugged and hidden for long-term reliability.



**Panic Button**  
Ergonomic, illuminated button for instant driver alert.



**Regulated power source**  
Reliable power from LiFePO4 backup system.

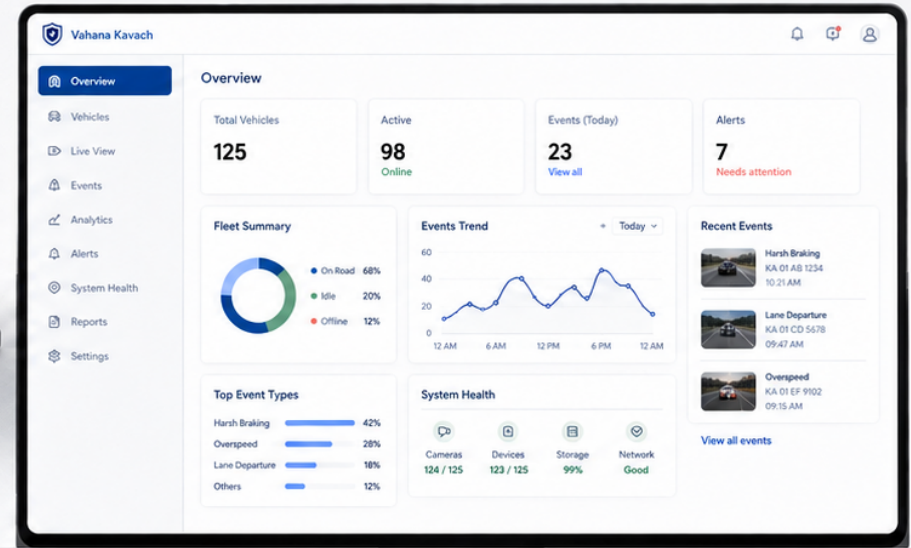
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# Garuda AI

## Optional intelligence layer

Garuda AI is an optional upgrade module for the Vahana Kavach Series. It adds an intelligence layer at the edge, helping fleets review events, uncover patterns, and make informed decisions.



### BUILT FOR THE VAHANA KAVACH PLATFORM

- Seamless integration
- Plug-and-play upgrade
- Secure by design
- Works with existing Vahana Kavach devices

### FROM INSIGHTS TO ACTION



### KEY CAPABILITIES

- Dashboard Analytics**: Clear views of events, trends, and fleet performance.
- Alerting Support**: Configurable alerts to help teams respond faster.
- Event Review**: Search, filter, and review events with video context.
- Fleet Health Visibility**: Monitor device, camera, network, and storage health.
- Optional Edge Intelligence**: Optional on-device intelligence layer for supported use cases.\*

\* Garuda AI is an optional upgrade module. Availability of selected features depends on configuration and use case.

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# Typical Installation Architecture

The Vahana Kavach hardware is designed for fast installation, clean integration and maximum reliability across commercial vehicle fleets.

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- 1 ROOFTOP SOLAR PANEL (VK-Surya)**  
Captures daylight for continuous charging and extended uptime.
- 2 FRONT CAMERA (VK-Drishti)**  
Real-time road view for safer driving and recorded evidence.
- 3 CABIN CAMERA (VK-Drishti)**  
Monitors inside cabin for driver safety and compliance.
- 4 REAR CAMERA (VK-Drishti)**  
Rear-facing camera for safer reversing and better visibility.
- 5 DRIVER DISPLAY (Next Gen)**  
High-visibility driver display for live view, alerts and diagnostics.
- 6 PANIC BUTTON**  
Easy-access emergency button near the driver.
- 7 PROTECTED BATTERY / CONTROL BOX (VK-140 Rakshak)**  
Rugged, tamper-protected power and control module with intelligent battery management.
- 8 APPROVED TRACKING CORE (VK-140 Rakshak)**  
Certified tracking core for location, telemetry and compliance.
- 9 WIRING & HARNESS ROUTING**  
Secure, neatly routed wiring for durability and safety.
- 10 CLOUD & DASHBOARD CONNECTIVITY (Garuda AI)**  
Secure data transmission for fleet visibility and insights.

Note: Camera positions may vary based on vehicle type and customer requirements.

## VARIANT SELECTION GUIDE: MATCH PRODUCTS TO YOUR FLEET NEEDS

<p><b>VK-140 Rakshak</b> Compact tracking and control module with protected design. <b>Best for</b> regulatory compliance &amp; tracking.</p>	<p><b>VK-Surya</b> Solar-backed telemetry unit with onboard intelligence. <b>Best for</b> fleet longevity &amp; backup charging.</p>	<p><b>VK-Drishti</b> Multi-view camera system for real-time road and cabin view. <b>Best for</b> AI insights, alerts &amp; safety.</p>	<p><b>Drishti Surya+</b> Integrated camera + solar solution for complete coverage. <b>Best for</b> full-round visibility &amp; uptime.</p>	<p><b>Next Gen</b> Smart driver interface with live view, alerts and system status. <b>Best for</b> driver awareness &amp; real-time control.</p>	<p><b>Garuda AI</b> Cloud and AI-based fleet analytics with real-time insights. <b>Best for</b> predictive insights &amp; decision safety.</p>
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<p><b>MODULAR BY DESIGN</b> Built to scale. Easy to install.</p>	<p><b>FLEET READY</b> Built for buses, trucks, ambulances and more.</p>	<p><b>NATIVE INTEGRATION</b> Vehicle-safe and approved power + vision system.</p>	<p><b>RUGGED PERFORMANCE</b> Built for Indian roads and real fleet conditions.</p>	<p><b>CONNECTED INTELLIGENCE</b> Real-time data. Smarter decisions.</p>	<p>+91 7892797896 / +91 8861979703</p>	<p>www.skydne.com</p>
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