4D RADAR

INTRODUCTION

Traditional radar has evolved. 4D radar, with its advanced capabilities, adds a new dimension to object detection and surveillance. Like a 360-degree, high-resolution eye on the road, it empowers systems to make real-time decisions. Detecting objects with unparalleled precision, it identifies multiple objects simultaneously, regardless of size, speed, or distance, with applications from enhancing security to optimizing traffic management.

:Enhanced Compliance Monitoring

Helping authorities enforce traffic laws efficiently by detecting violations such as speeding, lane discipline issues and No Seatbelts , contributing to safer roads for everyone.

:Speed and Direction Tracking

Accurately measures the speed and movement of vehicles approaching or moving away, detects the vehicles on the wrong way and classify the vehicles with precision.

:Precision Tracking

Our 4D Radar provides unparalleled accuracy in detecting vehicles and other objects, ensuring a seamless monitoring experience for efficient traffic management.
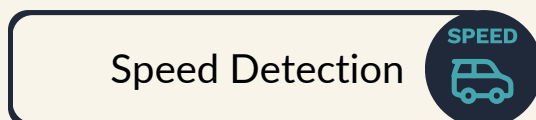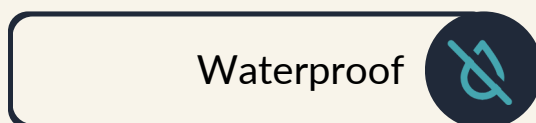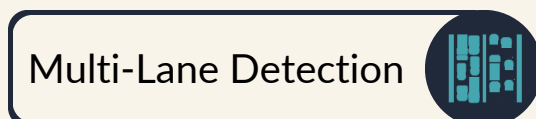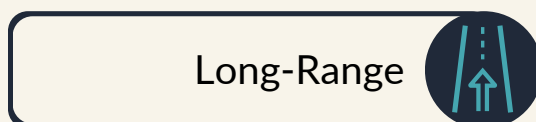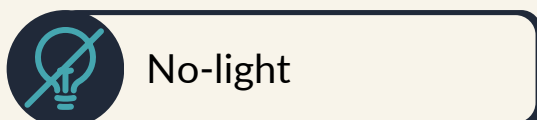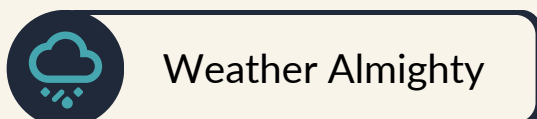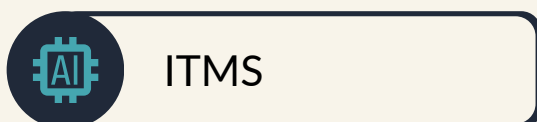
:Remote Control and Monitoring

4D radar systems can be remotely controlled and monitored, providing flexibility and convenience. This allows for efficient deployment and operation, as well as remote data access and analysis.

:Robust in All Conditions

Rain, fog, or nighttime? No problem! The radar's infrared and advanced sensors ensure consistent performance regardless of weather or lighting conditions, offering seamless 24/7 functionality.
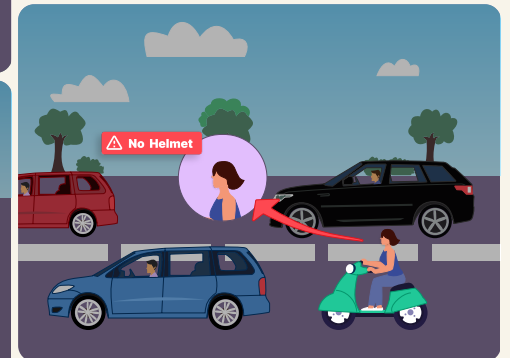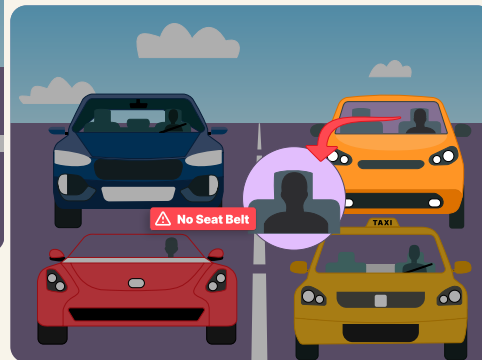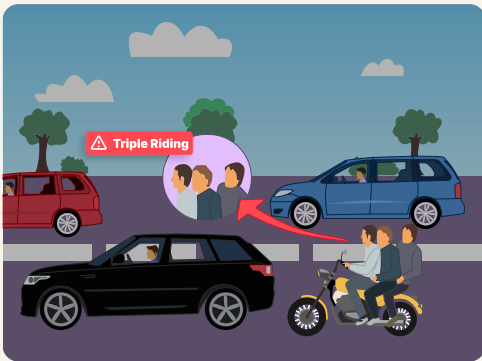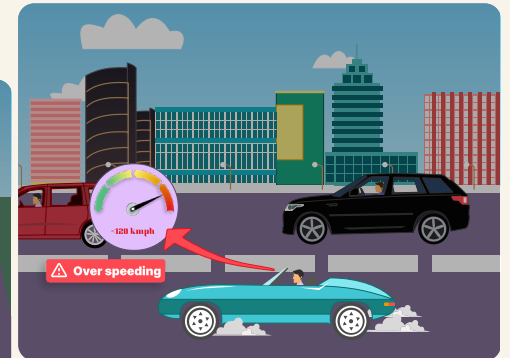
:features

ITMS	Long-Range
Weather Almighty	Multi-Lane Detection
Seeing Through	Waterproof
No-light	Speed Detection

:violations

- Wrong Way Driving
- Fancy Plate
- Over speeding
- Triple Riding
- No Seat Belt
- No Helmet

:model view

- Hooter
- Wireless Connectivity With Server
- External IR
- Camera
- Radar
- Power Supply
- Control Panel
- Junction Box
- Pole
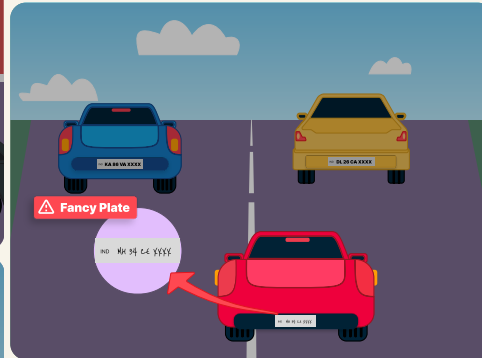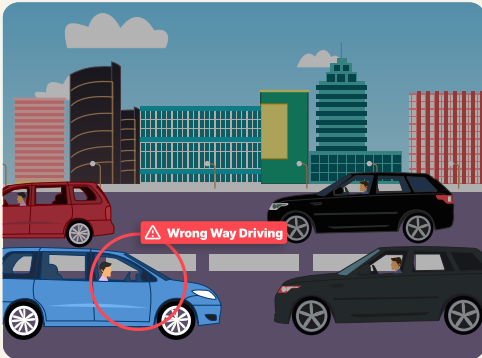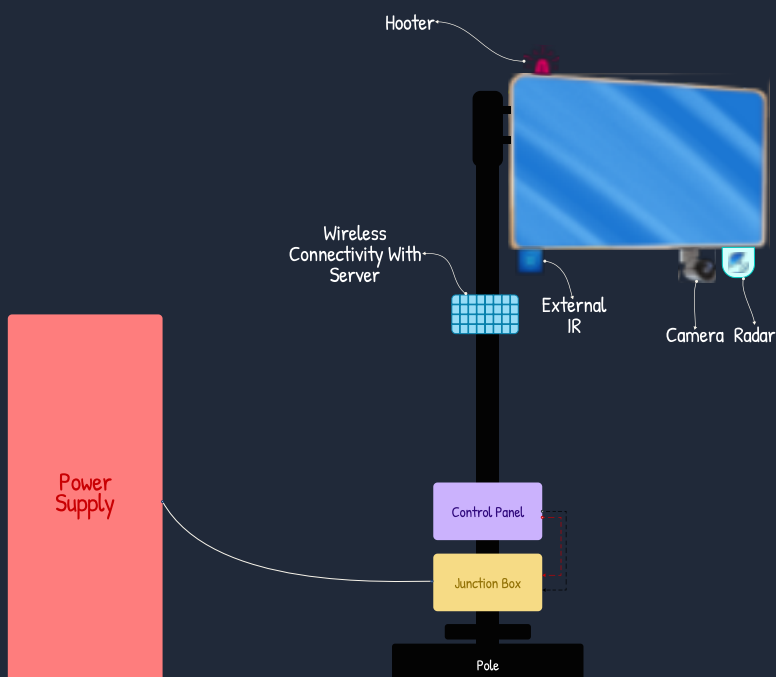
*Our products are fully customizable according to the user's needs.

:specifications

Type	4D Imaging Radar
Frequency	77 ~ 81 GHz
Detection range	LR - 300m /SR - 100m/ USR - 15m (Pedestrain)
Azimuth & Elevation Angle FoV	30°(±15°) / 100°(±50°) / 100°(±50°) & 24°(±12°)
Update Rate	50ms
Main Power supply	Typ. 12V
Operating Temperature	-40°C ~ +85°C
IP Rating	IP67
Dimension (mm) & Weight (g)	147.3 x 121.5 x 37 & 529

VINAYAN

Vinayan (India) Consulting & Services Pvt. Ltd.

Next Gen Traffic Management System

Vinayan is transported to be part of groundbreaking projects and takes immense pride in contributing to India's journey toward becoming a digitized, technology-empowered nation. Together, we're building the roads of tomorrow—today!

🌐 vinayan.in

✉ info@vinayan.in

📍 E-520, Second Floor, Mallik Plaza, Ramphal Chowk, Sector-7, New Delhi 110075

DRIVING INNOVATION ENHANCING SAFETY