

# Perfect *Vision*

## COMPANY PROFILE



### LEADING THE WAY TO SAFETY

Safety is Priority: Proactive Safety & Solutions | Minimizing Risks, Maximizing Protection

A Guidebook of Perfect Vision's  
Total Solutions

2025

# PERFECT VISION

LEADING THE WAY TO SAFETY



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# About Our Company

## A brief about our Company

Perfect Vision specializes in developing AI/IoT systems & solutions for various applications in industries, with R&D, manufacturing and sales of various worksite safety equipment located in Saudi Arabia. Our products and solutions advance in AI and IoT Technology promotes safety at worksites. We firmly believe and hereby encompass our services and serve all industries like Construction, Industrial cities, Transportation, Oil & Gas, Shipping & Delivery, Port Yard, Mining, Aviation, Electricity etc., in Saudi Arabia. We operate from various locations with a head office in Dammam and branches in Riyadh and Tabuk.

We address fast growing demands of worksite safety with advanced AI and IoT technology in our products, solutions and services. We have met the diverse needs of thousands of clients in Saudi Arabia, tackling challenges like how to reduce the risks, hazards and accidents in worksites and monitor the worksites which help increase the ROI, optimize OPEX, improved localization, and run sustainable operations.

### **Innovative Leadership**

Visionary leaders drive IoT innovation, shaping safety solutions that redefine industry landscapes and position us as pioneers in Saudi Arabia.

### **Research and Development**

Thriving on innovation, our dedicated R&D fuels IoT advancements, ensuring solutions stay ahead to redefine safety and connectivity across industries.

### **Manufacturing Excellence**

Precision and advanced technology define our IoT systems, ensuring manufacturing excellence in delivering cutting-edge solutions for diverse industry needs.

**Perfect Vision is aligned with ESG Goals and vision engineered for seamless, robust, flexible, and modular business model. We give customizable technology that mitigate risks and adapt to evolving requirements with certified compliance with leading standards that aligns to national and global standards.**

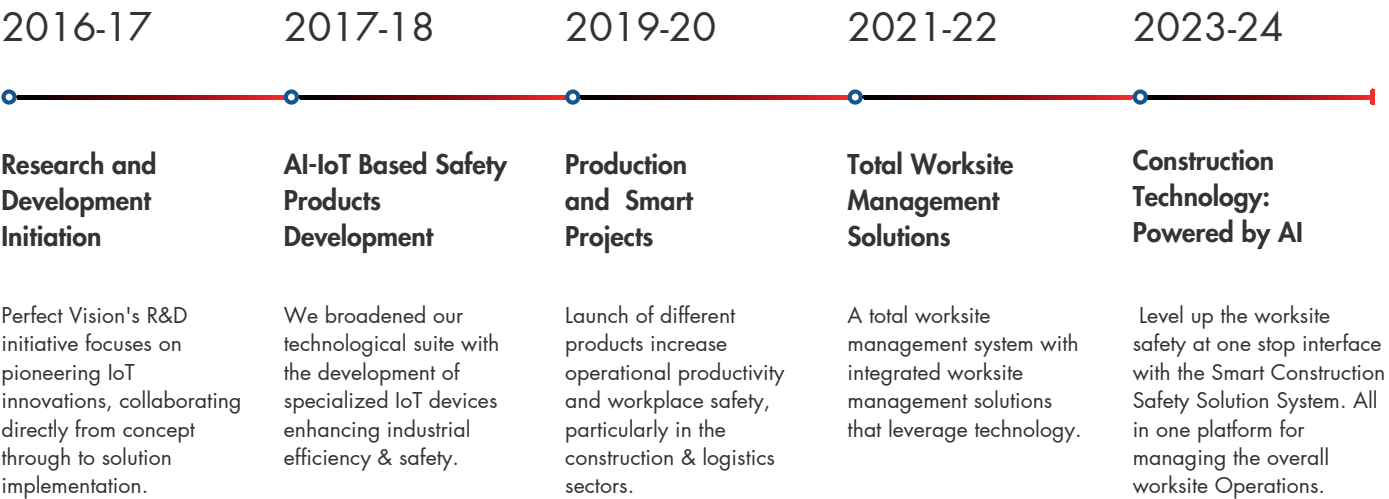
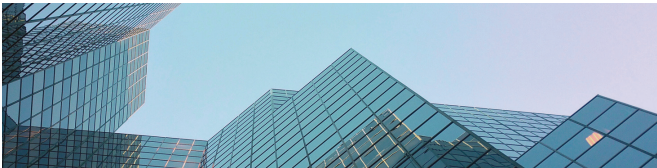
Expanding in Saudi Arabia, we've established our branches in Riyadh & Tabuk. This expansion enhances our ability to serve our clients and meet the demand for the Smart Site Safety Solutions (4S) and we have named it Construction Technology. Perfect Vision's vision is to apply AI and IIoT to every site in Saudi Arabia, creating dynamic shelf edges and fostering a profitable, efficient worksites in Saudi Arabia.



# Perfect Vision over the years

Our journey includes significant strides in Manufacturing, R&D, Sales, and Operations for AI & IoT integration for safety products in several industries, and delivering comprehensive strategic management solutions to enhance productivity and safety in all industrial and construction settings.

At Perfect Vision, we stand at the forefront of innovation the Internet of Things (IoT) and smart site safety solutions. Based in the vibrant landscape of Saudi Arabia, our company specializes in the manufacturing, provision, and development of diverse IoT systems, with a particular focus on enhancing safety across various applications.



In the future, Perfect Vision envisions itself as a global leader in technological advancements for a sustainable future. Our mission is to harness cutting-edge technologies and operational excellence, combined with stakeholder engagement, to deliver solutions in safety that transform lives, enhance human progress, and protect the worksites. This vision emphasizes their commitment to innovation and quality in IoT and safety solutions, aiming to set new standards in workplace safety and efficiency across various industries.





# Our Business Model

Our business model is built around four core pillars



At the heart of our operations, we focus on delivering innovative IoT technologies and safety solutions tailored to diverse industries.

**Products:** We design, develop, and manufacture high-quality IoT devices and safety systems that adhere to the highest standards of performance, reliability.

**Services:** We offer comprehensive services, including installation, maintenance, and technical support, ensuring seamless integration and optimal performance of our solutions.

**Custom Solutions:** Understanding that every business has unique requirements, we provide customized solutions to address specific operational challenges, enabling enhanced efficiency and safety.

**Tendering:** Leveraging our expertise, we participate in tenders, offering competitive and innovative proposals that align with client needs and project specifications.

## Our Core Principles

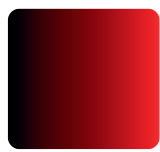


Values

**S**ervice  
**T**eamwork  
**R**espect  
**I**nitiative  
**D**etermination  
**E**nthusiasm

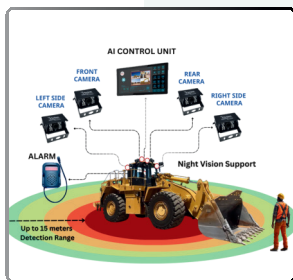
# Technology, localization and Manufacturing





# Our Products

Our products embodies cutting-edge technology to optimize safety and operational efficiency in diverse industrial landscapes. Each solution is designed with precision engineering, integrating sophisticated IoT and AI capabilities to meet rigorous industry standards and enhance system reliability.



Proximity Warning & Alert System (PWAS)



Load Moment Indicator (LMI)



Driver Monitoring System (DMS)



Smart Helmet



GPS Tracker



Mobile CCTV Tower + (MCT +)



Air Quality Monitoring System (AQMS)



Automatic Fire Suppression System



Portable Gas Detector



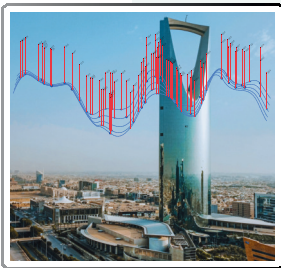
Construction Technology (4S)





# Our Services

Our services encompass expert consultation, precise installation, and dedicated maintenance, designed to ensure the optimal performance and integration of our advanced technological solutions. We specialize in customizing these services to meet the specific requirements of various industrial sectors, enhancing system functionality and operational effectiveness.



Smart Cities



Smart Parking



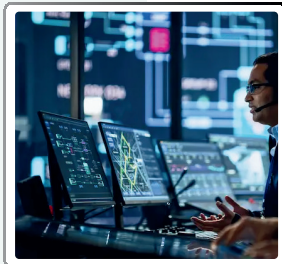
Access Gates



Security CCTV, AI  
Cameras



Smart Lighting



Network & Telecom  
Solution



Command & Control  
Center (C3)



Building Management  
System



Electronics  
Manufacturing



Waste Management



# The Perfect Vision Traction

**Perfect Vision** is a leader in safety solutions, effectively harnessing Artificial Intelligence, Internet of Things, and other innovative products to achieve a comprehensive traction profile. AI and IoT lead with impressive rates of 50% and 43% respectively, demonstrating strong market adoption and growth. The remaining 7% encompasses various emerging products, highlighting the company's commitment to expanding its technological reach across new markets. This strategic distribution ensures that Perfect Vision not only enhances safety and operational efficiency but also maintains a competitive edge in technological advancements, driving sustained growth and industry leadership.



Artificial Intelligence +50%

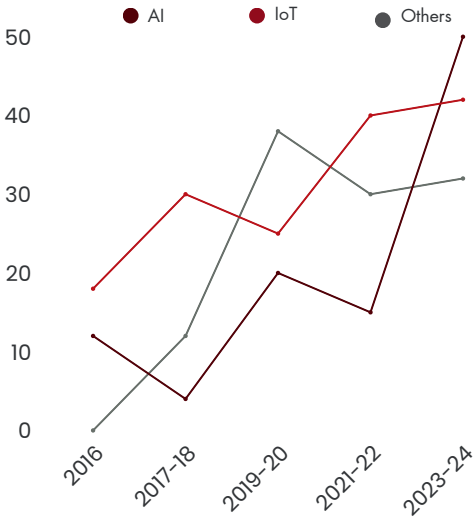
AI solutions, like the AI-PWAS, IVMS, AI cameras have achieved a 50% traction rate, indicating strong market adoption and significant contributions to safety enhancements & operational efficiencies.

Internet of Things +43%

With a 43% traction rate, Perfect Vision's IoT technologies have successfully penetrated new markets, reinforcing the company's strength in integrating advanced connectivity & analytics.

Others Product +7%

The diverse range of other products holds a 7% traction rate, supporting the company's portfolio expansion and indicating potential areas for further development and market penetration.



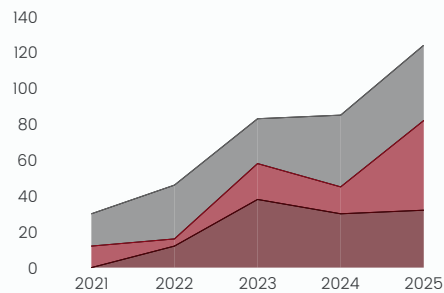


# Product Diversity

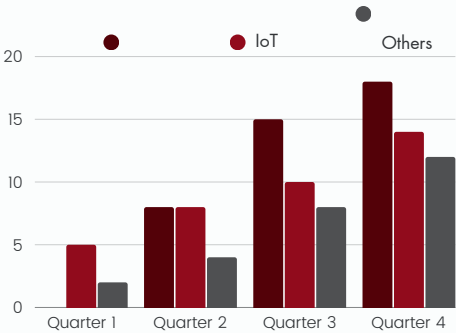


## Statistical Range

Products Development by Year:



Development by Quarter:



**Diverse Product Range:** Perfect Vision's product portfolio spans multiple categories, including:

- Artificial Intelligence of Things (AIoT): ~50% of our product offerings
- Industrial Internet of Things (IIoT): ~43 of offerings
- Standard IoT solutions: ~7% of offerings

**Safety Impact:**

- Reduction in Worksite Accidents: AI and IoT technologies have contributed to a 35% reduction in reported accidents across industries we serve, showcasing the effectiveness of our safety innovations.

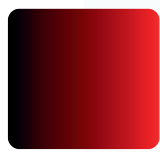
Customer Loyalty Percentage Level

96%

Branding Exposure Effectivity Level

92%





# Certificates



**ICT CONTRACTORS  
CLASSIFICATIONS GRADE 1**



**INDUSTRIAL LICENSE**



**LOCAL CONTENT**



**SAUDI ARAMCO CYBER  
SECURITY COMPLIANCE**



**ISO 14001:2015, 9001:2015**



**ISO 45001:2018, ISO-IEC  
27001:2022**



**COMMUNICATIONS, SPACE &  
TECHNOLOGY COMMISSION**



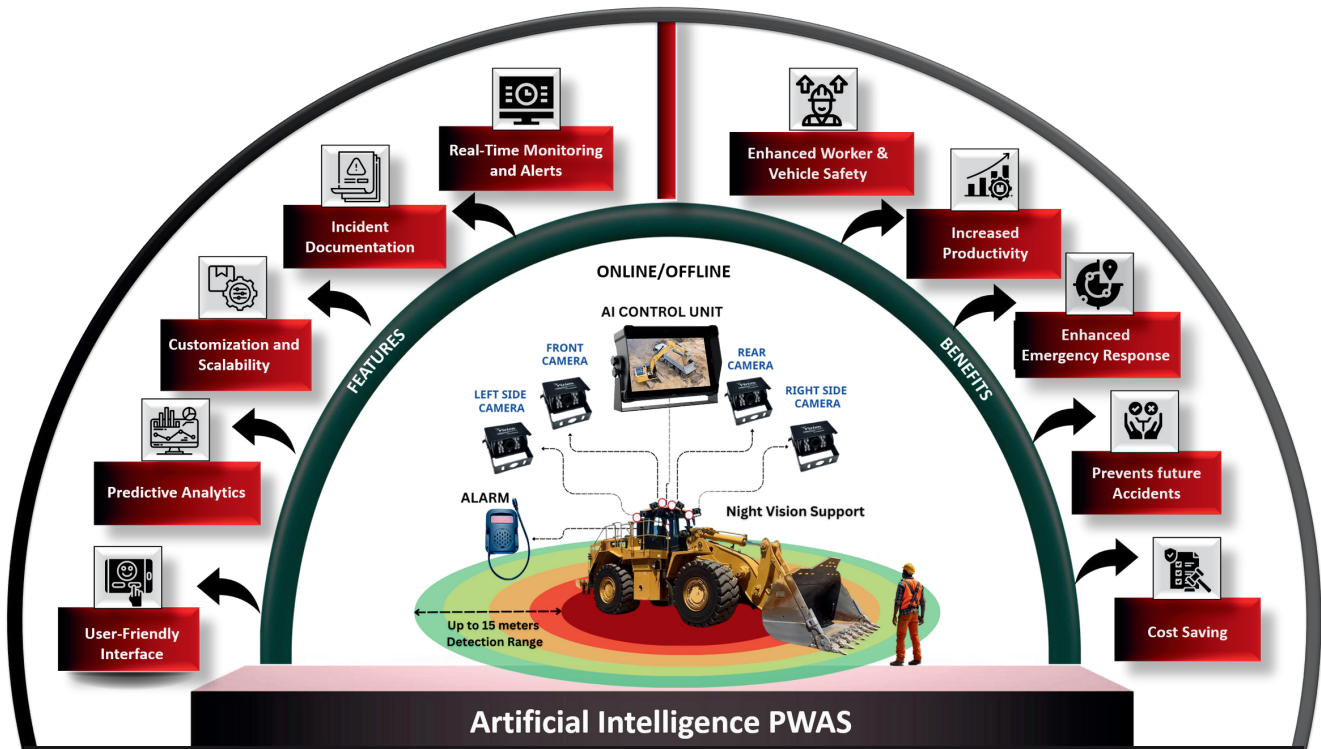
**DUNS CERTIFICATE**

Our certifications underscore our commitment to quality, safety, and environmental standards. These certifications reflect our adherence to global best practices, ensuring excellence and reliability in all our services. Trust us for certified expertise that delivers superior results.

LEADING THE WAY TO SAFETY

# PRODUCTS

## AI-PWAS (PROXIMITY WARNING AND ALERT SYSTEM)



The **AI PWAS** employs a cutting-edge technology for worksite safety, utilizing AI algorithms to prevent accidents and enhance worksite safety. Leveraging vehicle to individual (persons) and vehicle to vehicle proximity warnings, our system ensures a safer environment by analyzing data and issuing timely alerts. Our product is available in both online and offline versions. The online version features cloud configuration, enhancing its functionality by enabling remote management and data accessibility, distinguishing it from the offline version which operates independently of cloud connectivity. Customizable product, we can integrate a diver monitoring system, the GPS tracking, & dashcams for more enhancements.

### ◆ MORE FEATURES OF PROXIMITY ALERT WARNING SYSTEM

Cloud Configuration, GPS System	AI Controlled Unit	Improved Safety & Behavior	AI Based Detection	Waterproof	High Efficiency Video Coding	Sensor Detection 180'	Adjustable Audio	4 Cameras	Detection Range (up to 15 m)

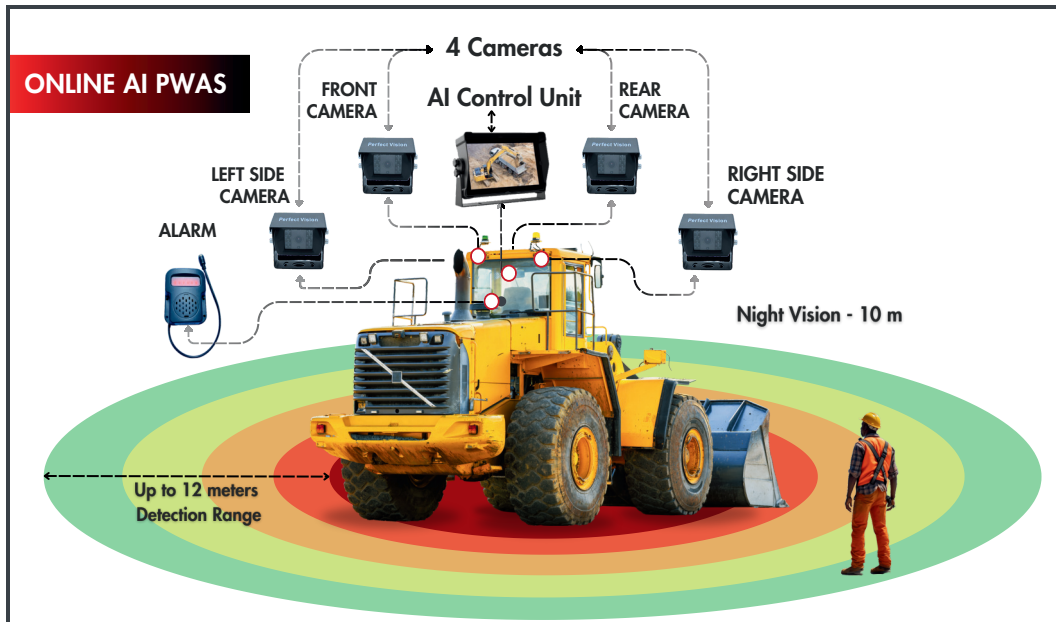
### About the Solution:

PWAS (Proximity Warning and Alert Systems) are engineered to establish a secure detection perimeter around individuals and vehicles, enhancing worksite safety by preventing accidents. These systems utilize sophisticated sensor technology to precisely detect the proximity of people and vehicles and issue timely alerts to mitigate potential hazards.

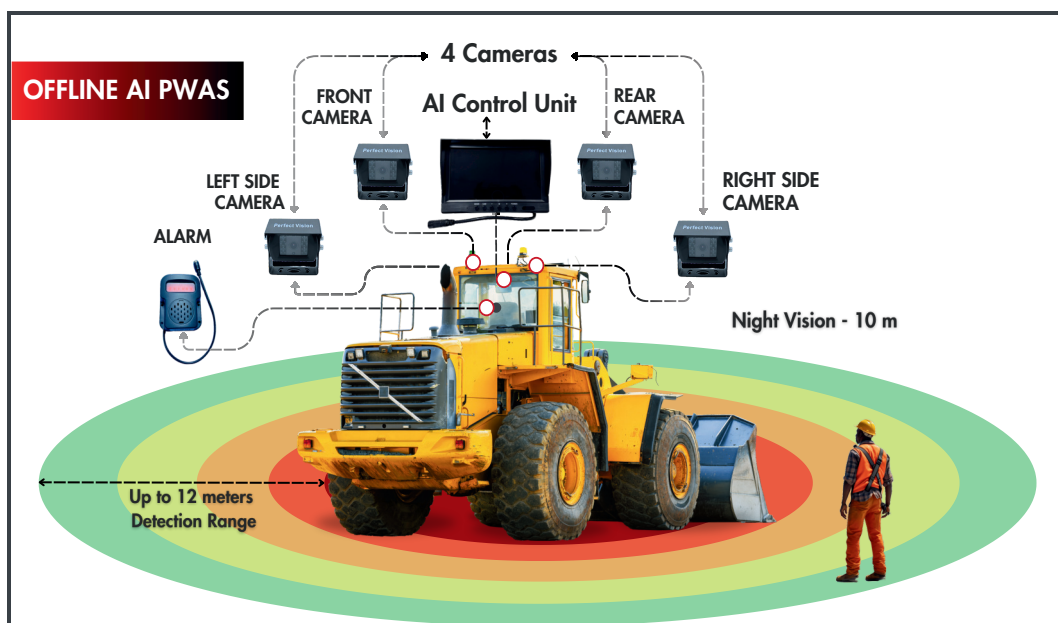
PWAS offers a range of systems tailored to diverse worksite needs, including AI-Based Monitor PWAS, Tag-Based PWAS, Non-Tag-Based PWAS, Forklift PWAS, and Combo PWAS. The Combo PWAS represents a comprehensive solution, merging Tag-Based and Non-Tag-Based technologies into a single system for optimal flexibility and adaptability across various environments and project requirements. The AI PWAS represents the pinnacle of our offerings, incorporating advanced AI monitoring technology to deliver extensive capabilities and enhanced features.



## TYPES IN PWAS - ONLINE & OFFLINE PWAS



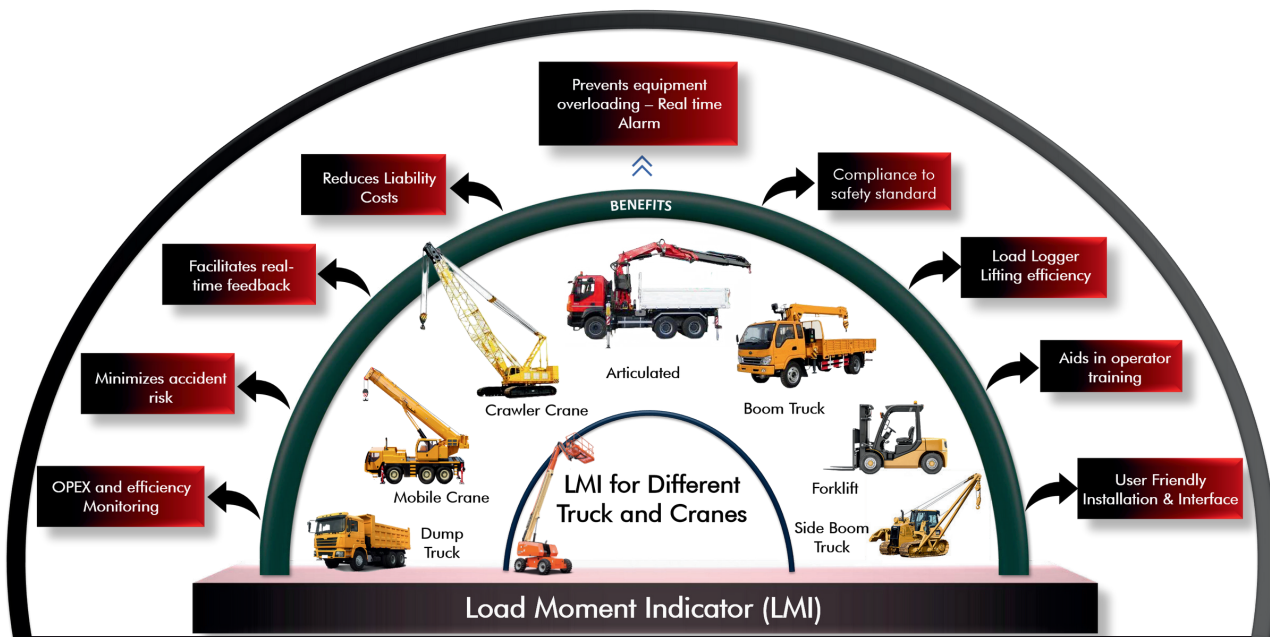
Scan to view specifications



Scan to view specifications



## LOAD MOMENT INDICATOR (LMI)



### Various Components of LMI



### Core Features of Load Moment Indicator (LMI)



- **Automatic Weighing:** Activates when the load is lifted to a specified height, automatically weighing the load and clearing the weight once unloaded.
- **Cumulative Weighing:** Automatically accumulates weight data, displaying the total weight and remaining quantity needed to be loaded. It alerts operators when the load capacity is exceeded.
- **Data Recording:** Keeps historical records of operations, including driver identification, material type, and loading time.
- **Remote Transmission:** Allows data to be sent remotely to a specified platform and host machine, enhancing data accessibility and operational oversight.

## COMPARISON TABLE, & FEATURES OF LMI (COMPONENTS FOR DIFFERENT VEHICLE TYPES)

COMPONENTS	TYPE OF HEAVY VEHICLE						
	ARTICULATED CRANE	CRAWLER CRANE	BOOM TRUCK	MOBILE CRANE (Telescopic)	FORKLIFT	EXCAVATOR	SIDE BOOM TRUCK
DISPLAY SCREEN	✓	✓	✓	✓	✓	✓	✓
LOAD CELL	OPTIONAL	✓	✓	✓	✓	✓	✓
A2B SWITCH	✓	✓	✓	✓	NA	✓	✓
LENGTH SENSOR	✓	✓	✓	✓	NA	NA	NA
ANGLE SENSOR	✓	✓	✓	✓	✓	✓	✓
PRESSURE SENSOR	✓	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	✓	NA
CONTROL UNIT	✓	✓	✓	✓	✓	✓	NA
ANEMOMETER	NA	✓	NA	OPTIONAL	NA	OPTIONAL	NA
TILT ANGLE SENSOR	NA	NA	NA	NA	✓	NA	NA

### ◆ About the Solution

A **Load Moment Indicator (LMI)** is an essential safety device widely used in cranes and other lifting equipment to enhance load safety, particularly in heavy equipment and construction environments.

- **Real-Time Monitoring:** Continuously monitors the load moment, combining the load's weight and its distance from the equipment's center of rotation.
- **Safety Alerts:** Issues real-time alerts when the load moment approaches or exceeds predefined thresholds to prevent overloading and accidents.
- **Operational Safety:** Ensures lifting operations remain within safe operating limits, promoting equipment safety and reducing risks on worksites.
- **Accident Prevention:** Helps prevent overloading, operational errors, and potential equipment damage, enhancing safety and reliability.
- **Compliance with Standards:** Engineered and manufactured in strict compliance with the national standard GB12602-90.
- **Versatility:** Designed for use on various types of cranes, making it a critical safety device for construction and industrial operations.
- **Reliability:** Enhances crane safety and reliability through meticulous engineering and robust manufacturing.

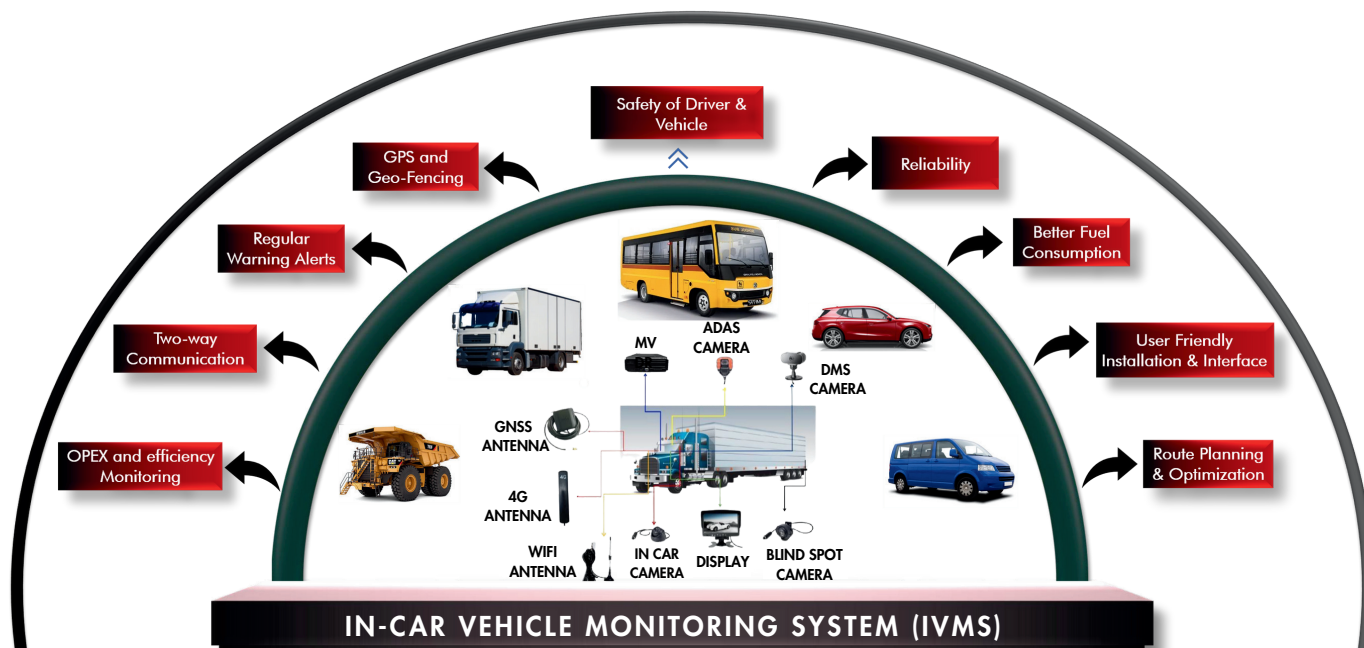
**Applications: Construction Sites, Shipping Yards, Offshore Oil Rigs, Mining & Quarrying, Manufacturing Facilities**

In each of these applications, LMIs provide critical real-time data that help operators make informed decisions about load handling, significantly reducing the risk of accidents and enhancing overall operational safety.

Scan to view  
specifications






















## TYPES IN PWAS - ONLINE & OFFLINE PWAS



**Driver Monitoring System (DMS)** is an intelligent system designed to enhance safety and improve the efficiency of a company's vehicle fleet. By utilizing advanced monitoring and analysis capabilities, DMS helps to optimize functionality, productivity and costs associated with operations and maintenance.

### MAIN COMPONENTS OF IVMS



SERVICES & APPLICATION	 LOGISTICS	 OIL & GAS	 SCHOOL BUS	 PUBLIC TRASPORT	 TAXI	 MINING & CONSTRUCTION	
TRANSMISSION LAYER	 3G/4G/5G  2.4G/5.8G WI-FI  GPS						
FUNCTIONS	 FACE RECOGNITION	 DRIVER FATIGUE	 ADAS	 BLIND SPOT DETECTION	 SMOKING	 LOOK ASIDE	 CALLING
ADD ONS	 DASHCAM	 FUEL SENSOR	 PASSENGER COUNTER				



## End-to-End IVMS Solution

### ◆ ADVANCED CAMERA SPECIFICATIONS



#### 1.DMS AI Camera

The Operator Monitoring System is an AI based camera to monitor various human behaviors, and ensure the driver is awake, alert and following the safety rules. AI camera is also able to detect the signs of fatigue, and alert the driver to device carefully



#### 2.Blind Spot Detection (BSD)

Blind Spot Detection or BSD camera that helps and supports drivers to operate safely when passing lane to avoid side accidents and collisions. This smart system is equipped with an AI-Based Camera. With this system, the driver will receive an alert to be aware of detected objects in both:

- Left Blind Zone
- Right Blind Zone



#### 3.Advanced Driver-Assistance Systems (ADAS)

ADAS AI camera aims to achieve provide safe driving features and avoid a collision. Here are some benefits of the ADAS system

- Lane departure warnings
- Pedestrian detection warning
- Over-speed warning
- Forward Collision Warning (FCW)

### DMS Document for Features & Technical Specification:

#### Product Features:

- Built-in high-performance image processing chip, H.265 encoding, with high compression ratio and clear image.
- Support 8-channel real-time preview and storage.
- 1 channel audio and video synchronous output, 1 channel VGA output.
- Support UPS power access.
- Built-in G-Sensor, real-time monitoring of vehicle driving behavior.
- Reversing image ranging assistance.
- Video horizontal and vertical mirroring adjustment.

#### Power Supply:

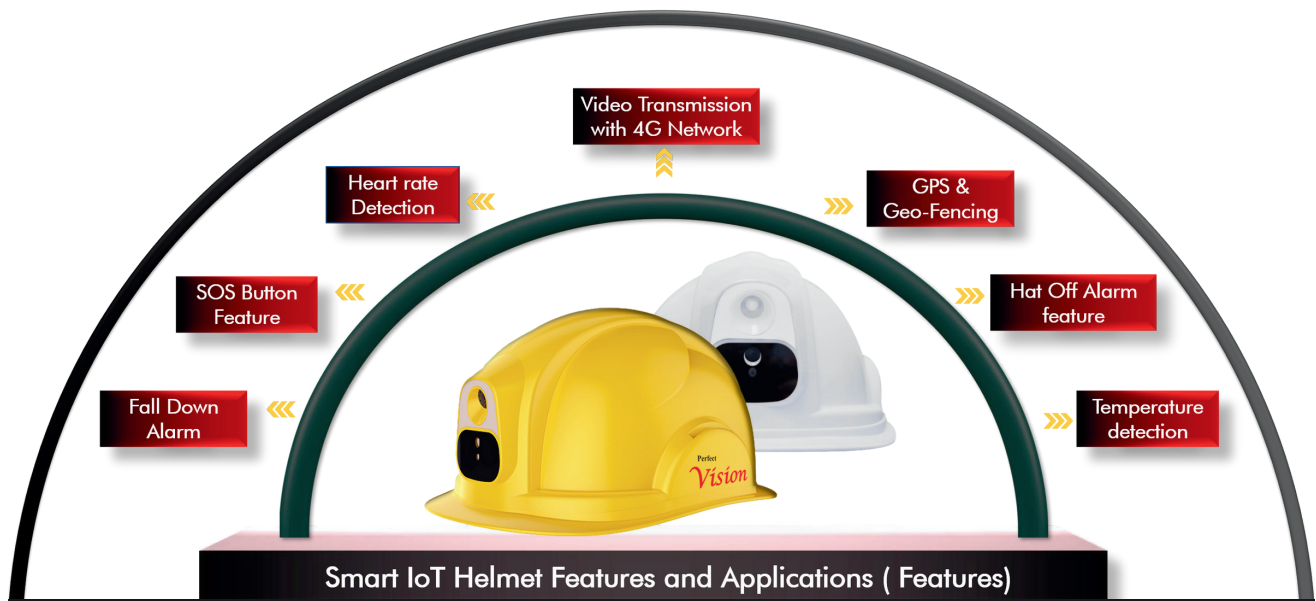
- Professional vehicle power supply 10VDC —36VDC wide voltage input design.
- Various protection circuits such as under-voltage, short circuit, reverse connection, etc., suitable for various car models.
- Support intelligent power management recognition, automatic shutdown at low power, low power consumption when flame out.
- Supports regular upload of GPS location information to the platform after standby.

#### Technical Standard Data Storage:

- Built-in super capacitor to avoid data loss and disk damage due to abnormal power failure.
- Using a special file management mechanism to encrypt data to effectively protect data security.
- Support 2.5-inch 2TB mechanical HDD.
- Support SD storage, maximum support 256G.

**Applications of DMS : Logistics, Transportation, Fleet Management, Industrial Cities, School Bus, Taxi, Mini Van etc.**

## SMART HELMET



At the worksite, a Smart IoT Helmet is the most important PPE. This helmet is an intelligent operational device can be worn on the head, which utilizes functions such as 4G/wifi internet, perception sensors, real-time video, photography, recording, real-time intercom, positioning, electronic fence, security protection warning, etc. By interacting with the intelligent platform for on-site operations, remote scheduling and expert guidance can be achieved.

### FEATURES AND TECHNICAL SPECIFICATIONS

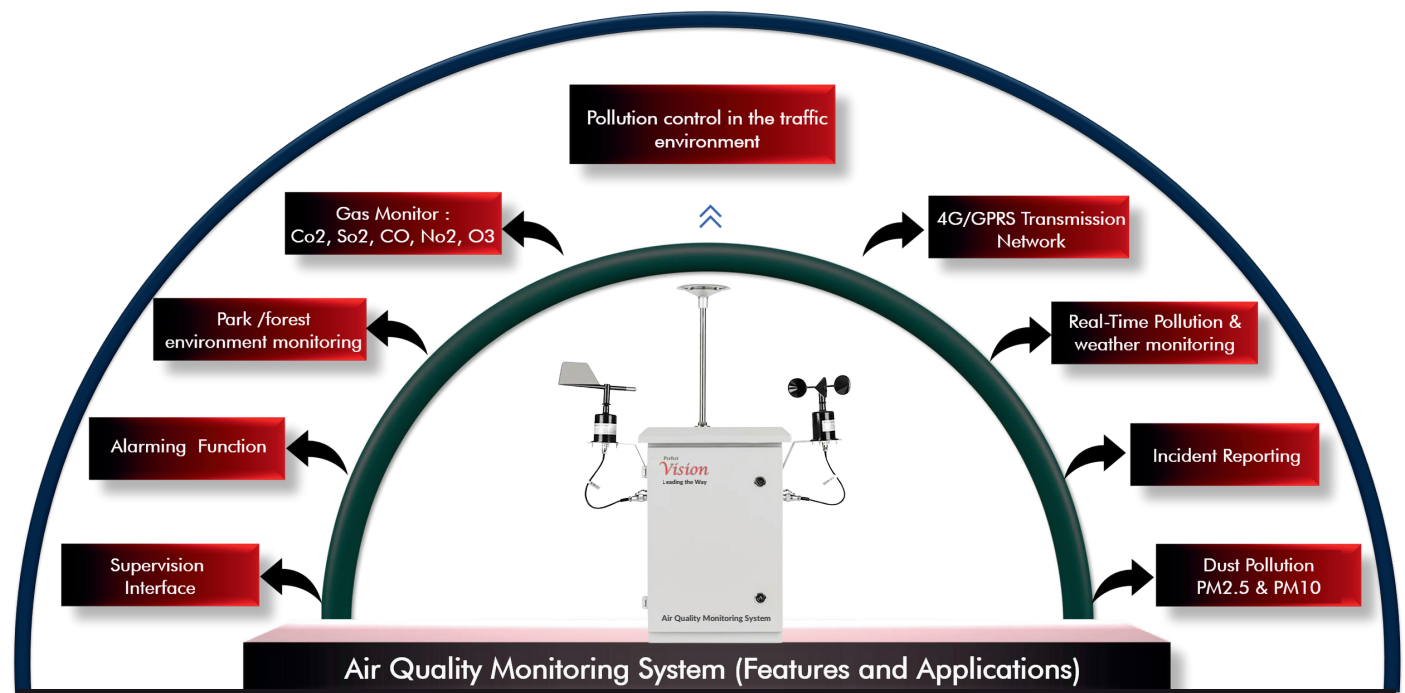


Sl. No.	Parameters	Details
1	Audio function	Two-way Audio
2	Warranty	1 year
3	Data Storage Options	Memory Card
4	Resolution	1080P/720P
5	Storage	256GB
6	Network	5G/4G/WiFi
7	Battery	6000mAh Rechargeable Battery
8	Monitoring Type	Smart App
9	Angle	120°
10	IP Protection	IP67
11	Certifications	CE, CCC, PCEC

#### Specifications and Capabilities:

- **Connectivity:** The helmet supports 4G/WiFi, enabling continuous real-time communication and data transfer, essential for streaming live video, capturing photos, and recording footage directly from the worksite.
- **Perception IoT Sensors:** These sensors are critical for environmental monitoring, detecting potential hazards, and ensuring the wearer's safety by alerting them to risks in their immediate surroundings.
- **Real-Time Intercom and Positioning:** Features include hands-free communication through a built-in intercom system, allowing for effortless coordination and collaboration among team members. The positioning function, enhanced by GPS tracking, ensures accurate location tracking which is crucial for navigation and monitoring on large or complex sites.
- **Security and Safety Alerts:** The helmet is equipped to set up electronic fences—a virtual perimeter that triggers alerts when crossed—enhancing site security and safety compliance. This feature is particularly useful in enforcing restricted zones and ensuring that personnel adhere to site protocols.

## AIR QUALITY MONITORING SYSTEM (AQMS)



### Core Features of AQMS



Pollutant control



Particulate Matter



Detects O3, NO2, SO2



Humidity Measurement



Temperature Measurement



Noise Monitoring



Wind Speed



Wind Direction



Alarm Function



Remote Parameter Adjustment

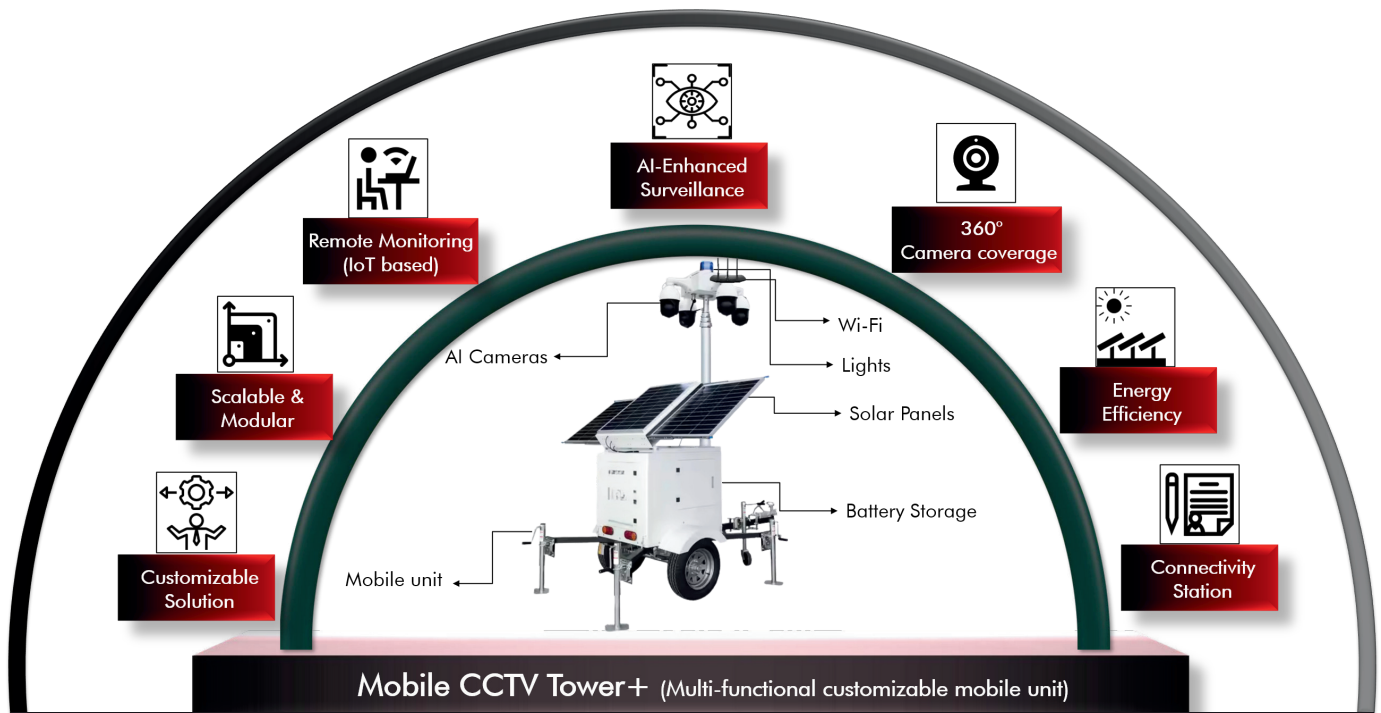
**Air Quality Monitoring Station** can measure outdoor air pollutants in real-time, measuring data quickly and accurately. It can be customized for different applications demands, the measurement parameter can be choose from the following: the gas type Ozone(O3), Nitrogen Dioxide(NO2), Sulfur Dioxide(SO2), Carbon Monoxide(CO), Particulate matter PM2.5 and PM10, also the Noise, Meteorological parameters (including of Temperature, Humidity, Wind speed, Wind direction, Barometric pressure ), etc.

The Air Quality Monitoring System (AQMS) is designed to measure outdoor air pollutants in real-time with quick and accurate data collection. It allows for precise tracking of air quality trends and pollutants, which is essential for both regulatory compliance and public health monitoring. Whether for urban air quality management, industrial emission monitoring, or research purposes, the AQMS provides essential data that can help in making informed decisions to improve air quality and mitigate environmental health risks.

### Applications of Air Quality Monitoring System (AQMS):

- Pollution Control in Traffic Environments
- Road and Tunnel Pollution Monitoring
- Environmental Monitoring in Residential Areas
- Schools, Hospitals, Urban Air Quality Monitoring
- Emission Monitoring of Particulate and Pollution Sources
- long-term Air Quality Trends Analysis
- Short-term Atmospheric Environmental Impact Assessment
- Park/Forest Environmental Monitoring

## MOBILE CCTV TOWER + (MCT +)



### Core Features of Mobile CCTV Tower + (MCT +)

Tower Lighting	CCTV Surveillance	Solar Powered	Customizable Modular Solution	MCT+ AQMS (Air Quality Monitoring System)	MCT+ Connectivity (4G/Wifi/Satel lite)	MCT+ Siren/PA (SOS Alert/Public Announcement)	MCT+ AI Recognition	MCT+ Toxic Gas Leak Detection	MCT+ Thermal Imaging

**Mobile CCTV Tower + (MCT +)** is a modular, all-in-one solution combining tower lighting with CCTV surveillance and expandable features. Built on a robust mobile platform, MCT+ integrates high-intensity lighting with modular addons such as environmental sensors, connectivity modules, and advanced analytics. Whether for construction sites, smart cities, or remote worksite areas, MCT+ adapts to your needs with customized addons, ensuring flexibility, efficiency, and future-proof performance.

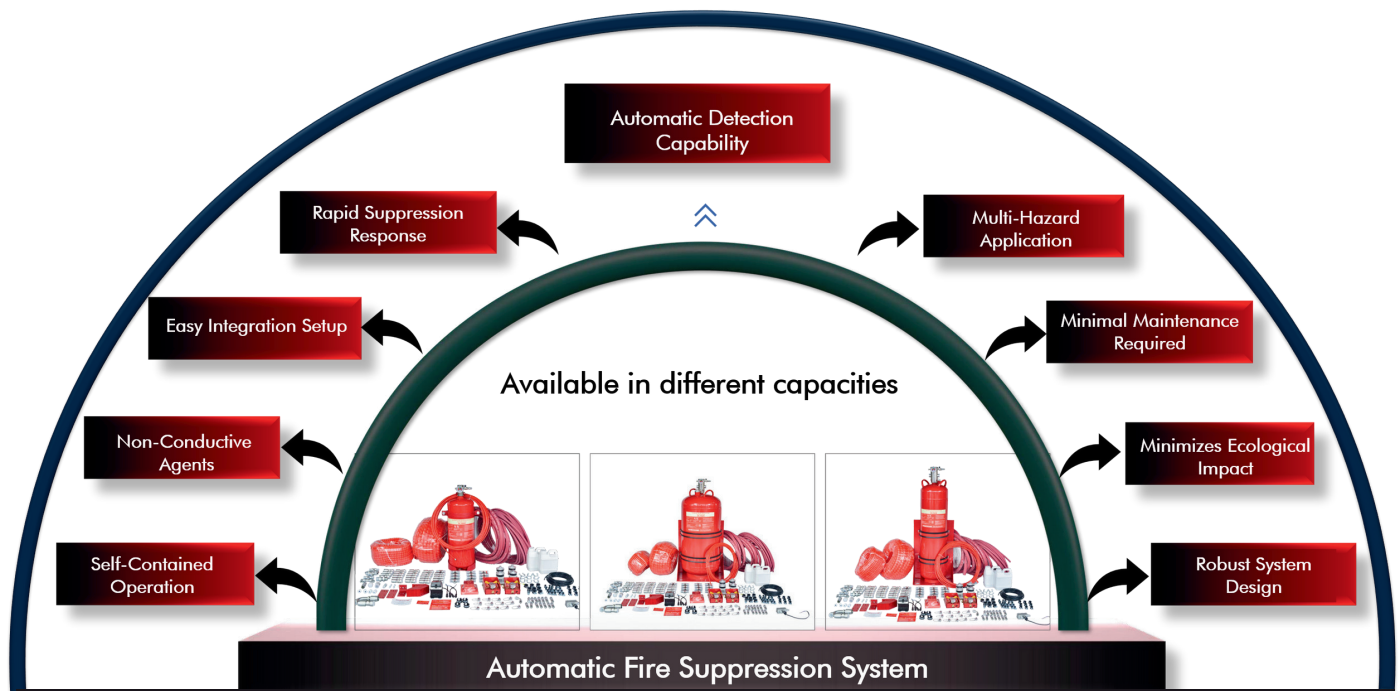
From ensuring the safety of construction sites to enhancing city surveillance and monitoring remote infrastructures, the MCT+ is designed to deliver reliable, efficient, and comprehensive surveillance and lighting solutions across multiple industries. Its mobility and ease of setup make it equally effective for temporary events as well as permanent installations, providing a scalable solution that can grow with user needs. With its blend of robust performance, modular design, and advanced technological integration, the MCT+ is an ideal choice for those seeking a flexible, scalable, and efficient surveillance solution.

**Applications:** The Mobile CCTV Tower+ (MCT+) is designed to serve a diverse array of applications across different sectors due to its mobile, versatile, and robust features. Here are some key applications: Construction Sites, Event Monitoring, Urban Surveillance, Remote Area Monitoring, Industrial Security, Parking Lots and Large Commercial Premises, Disaster Response and Emergency Services.

The mobility and modular design of the MCT+ make it a versatile choice for these and other applications, providing effective surveillance and security wherever it is deployed.



# AUTOMATIC FIRE SUPPRESSION SYSTEM



## Core Features of Automatic Fire Suppression System



The **Heavy Vehicle Automatic Fire Suppression System** is specifically engineered for automatic fire detection and suppression in a range of high-risk environments and heavy-duty vehicles. This includes various industrial equipment, mining operations, and vehicles such as trucks, tractors, buses, and both on-road and off-road equipment. The system's effectiveness stems from its use of non-conductive agents that can safely extinguish fires involving both ordinary combustible materials and flammable liquids. This feature is particularly crucial as it allows the system to operate effectively even in the presence of live electrical equipment, reducing the risk of electrical hazards during fire suppression activities.

The versatility and safety features of the Heavy Vehicle Fire Suppression System make it a critical component for enhancing fire safety in environments where heavy machinery operates and where there is a high risk of fires involving complex materials. By providing quick and effective suppression solutions, these systems help protect not only the expensive machinery and equipment but also significantly enhance the safety of the operators.

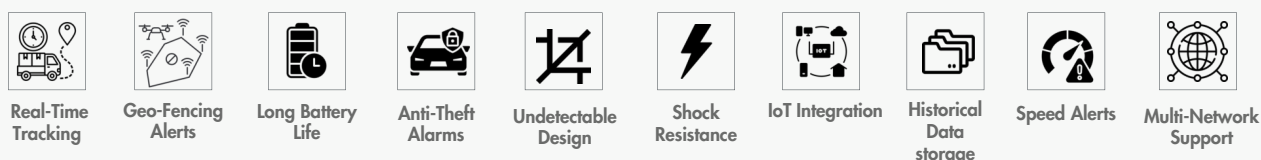
## Applications of Automatic Fire Suppression System: Construction, Transportation, Mining Equipment and Vehicles, Aircraft Hangars, Waste Management.

This system is designed for quick fire detection and suppression. It uses advanced sensors to detect heat, smoke, or flames, triggering the release of extinguishing agents such as water, foam, dry chemicals, or inert gases from pressurized tanks. These agents are then distributed through a network of pipes and nozzles to effectively target and suppress fires.

## GPS TRACKER SYSTEM



### Core Features of GPS Tracker



**GPS Tracker** is engineered for superior real-time location tracking and asset management across a diverse range of applications. Equipped with advanced GPS technology, it delivers precise location data with high accuracy, essential for monitoring vehicles, equipment, and personnel effectively. The tracker boasts extended battery life for long-term deployment without frequent recharges and features seamless integration with IoT platforms to enhance data analytics and operational oversight.

The GPS tracker withstands challenging environments, it's ideal for logistics, construction, and remote operations, ensuring reliable performance and comprehensive asset security. Whether optimizing fleet operations or safeguarding valuable equipment, our GPS Tracker enhances operational efficiency and provides peace of mind through enhanced connectivity and control. Additionally, the tracker is equipped with customizable geofencing capabilities, allowing for automated alerts when assets enter or leave predefined areas, enhancing security and operational compliance. It also supports real-time alerts for critical events such as speed thresholds, facilitating immediate responses to potential issues.

**Applications:** The Mobile CCTV Tower+ (MCT+) is designed to serve a diverse array of applications across different sectors due to its mobile, versatile, and robust features. Here are some key applications: Construction Sites, Event Monitoring, Urban Surveillance, Remote Area Monitoring, Industrial Security, Parking Lots and Large Commercial Premises, Disaster Response and Emergency Services.

The mobility and modular design of the MCT+ make it a versatile choice for these and other applications, providing effective surveillance and security wherever it is deployed.

# PORTABLE GAS DETECTOR



The **Portable Gas Detector** is designed for dependable gas detection. It is a water-proof multi 4 gas detector for CH<sub>4</sub>/LEL, H<sub>2</sub>S, CO and O<sub>2</sub> with sensors. This is tailored to meet specific field needs, the gas sensor offers flexible selection options. Incorporating cutting-edge sensor technology and an IP67 rating.

This gas detector is versatile, reliable, and easy to operate, making it an essential safety tool in industries facing gas hazards. Its combination of cutting-edge technology and user-friendly design supports widespread industrial applications, ensuring environmental safety and compliance with health and safety regulations.

## FEATURES AND TECHNICAL SPECIFICATIONS

Detects Multiple Gases	CH <sub>4</sub> /LEL, H <sub>2</sub> S, CO and O <sub>2</sub>	Sound, Light, Vibration	PC+ABS+ Rubber Protection
Compact Size USB charge	Fast Response on detection	Dustproof & Waterproof	Continuous Detection

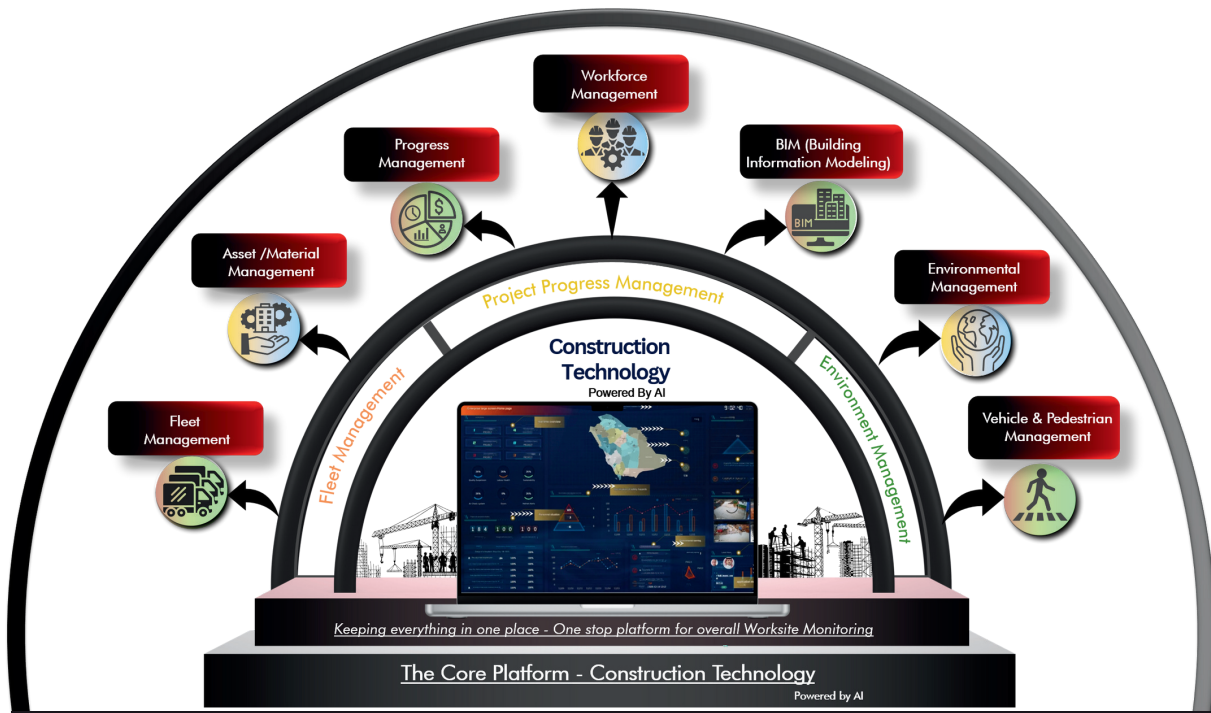
### Applications:

- Oil and Gas Industry,
- Chemical Manufacturing
- Mining Operations
- Environmental Monitoring
- Construction Sites
- Wastewater Treatment & Utilities
- Marine and Shipping.

SL.No.	Parameter	Details
1	Gas Detection	CH <sub>4</sub> , O <sub>2</sub> , CO, toxic gas
2	Response time	T90 ≤ 30/60/180S
3	Accuracy	≤ ±5%FS
4	Repeatability	≤ 2%FS
5	Electronic Battery	Rechargeable Li-battery 1800mAh, nominal voltage 3.7V
6	Operation time	≥ 9h
7	Alarm Method & Intensity	Method: Sound, LED light, and vibration Intensity: ≥ 90dB
8	Display & Operation	TFT Color display screen
9	Operating Temperature	-20°C ~ 60°C
10	Operating Humidity	10~95%RH non-condensing
11	Body Material & Weight	Material used: PC+ABS Weight: 200Grams
12	Dimensions	66X127X46mm

# CONSTRUCTION TECHNOLOGY

## POWERED BY AI



**Construction Technology Powered by AI**, is one stop platform for overall worksite monitoring and our platform exemplifies how technology leverages advanced analytics and AI to streamline project operations, boost efficiency, and improve adherence to safety and environmental standards, thereby transforming traditional construction processes into highly efficient, controlled, and data-driven operations.

**Construction Technology** aims to centralize and streamline construction project management, enhancing efficiency and oversight across multiple domains critical to construction projects. Each component defined above reflects a facet of construction technology that contributes to more effective project management by enabling better communication, resource allocation, safety measures, and environmental responsibility. This unified platform approach not only aids in managing complex construction activities but also supports the overall goal of maintaining cost efficiency and adherence to project timelines. It helps us manage the overall worksite operations in one platform.

This platform encompasses several critical areas: Workforce Management for optimizing labor and team dynamics; Building Information Modeling (BIM) for precise project planning and execution; Environmental Management to ensure sustainability; Vehicle & Pedestrian Management for enhancing on-site safety; and Project Progress Management to monitor and report on development milestones. Additionally, it includes Asset/Material Management for tracking resources, Field Management for direct on-site operations oversight, Progress Management to ensure adherence to timelines, and Fleet Management for logistical coordination of transport resources.

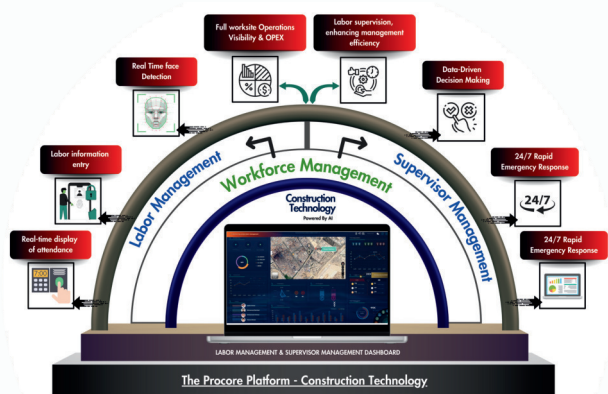
**Applications: Heavy Civil Construction, Industrial Construction, Commercial Construction, Infrastructure Repair and Maintenance, Land Development, Environmental Construction, Mega and Giga Projects.**

Construction technology has transformative applications across various specific industries, not only improving the efficiency and effectiveness of construction processes but also in enhancing the sustainability and safety of the built environment across various sectors. While accidents are unforeseen, our approach focuses on proactive prevention, ensuring that safety protocols are consistently observed and maintained. This not only helps in preventing accidents but also ensures that all site activities are conducted within the safety guidelines at all times. Our commitment is to create a secure environment where safety measures are not just reactive, but a planned and integral part of daily operations.



# VARIOUS DASHBOARDS IN CONSTRUCTION TECHNOLOGY

## WORKFORCE MANAGEMENT



## ENVIRONMENT MANAGEMENT



## VEHICLE AND PEDESTRIAN MANAGEMENT

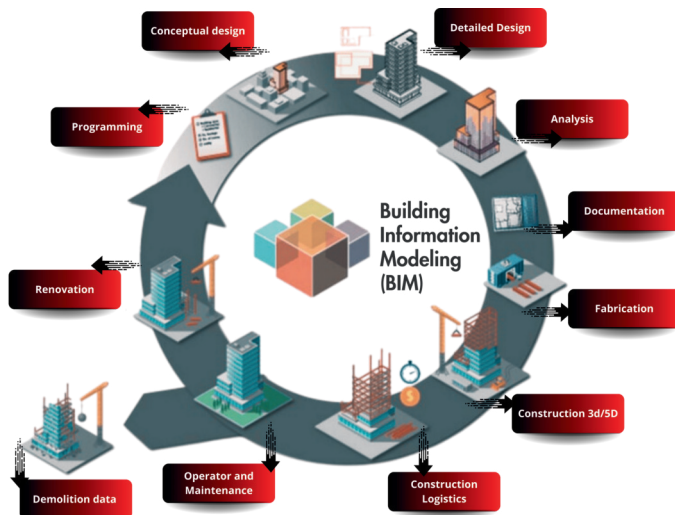


## PROJECT PROGRESS MANAGEMENT

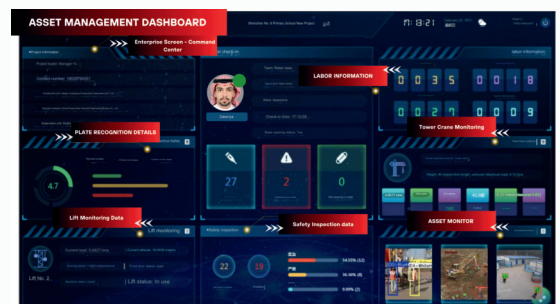
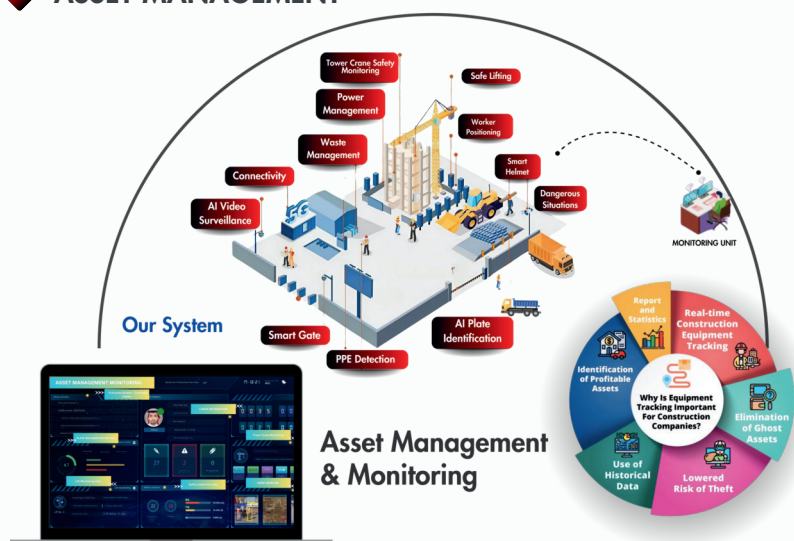


# VARIOUS DASHBOARDS IN CONSTRUCTION TECHNOLOGY

## ◆ BUILDING INFORMATION MODELING (BIM)



## ◆ ASSET MANAGEMENT



## ◆ FLEET MONITORING SYSTEM

Ensure Timely Construction Vehicle Maintenance with a Fleet Management System.



- Scheduling maintenance
- Fuel Tracking
- Preventive maintenance
- Warranty & Insurance Tracking
- Log & repair history
- Work order management
- Parts inventory

LEADING THE WAY TO SAFETY

# SOLUTIONS & SERVICES

## CUSTOMIZED SOLUTIONS



Our customized solutions and services are designed to enhance safety and operational efficiency across various industries. These offerings include professional installation, real-time monitoring, and maintenance of advanced IoT systems, along with tailored solutions like mobile CCTV for enhanced site security. Each service is aimed at ensuring the seamless integration and reliable performance of critical infrastructure to meet the specific needs of your business.

## LONG TERM BENEFITS



Perfect Vision is presented as a pioneering Saudi company committed to integrating advanced technological solutions with strong local R&D to enhance operational and cost efficiencies. We Prioritize local content and provide a unified management platform that simplifies operations for clients. The company offers robust after-sales support and ensures a significant return on investment through cost-effective solutions. Perfect Vision excels in delivering tailored technology that meets specific industry requirements, solidifying its role as a leader in the local market.



## SMART CITIES



Leveraging IoT, AI, and data analytics, our **Smart Cities** solutions optimize urban infrastructure and resource allocation. These integrated systems enhance public service delivery and improve operational efficiencies for city management. Real-time data insights enable proactive decision-making and sustainable urban development. This results in safer, more connected, and resilient urban environments.

## SECURITY CCTV, AI CAMERAS



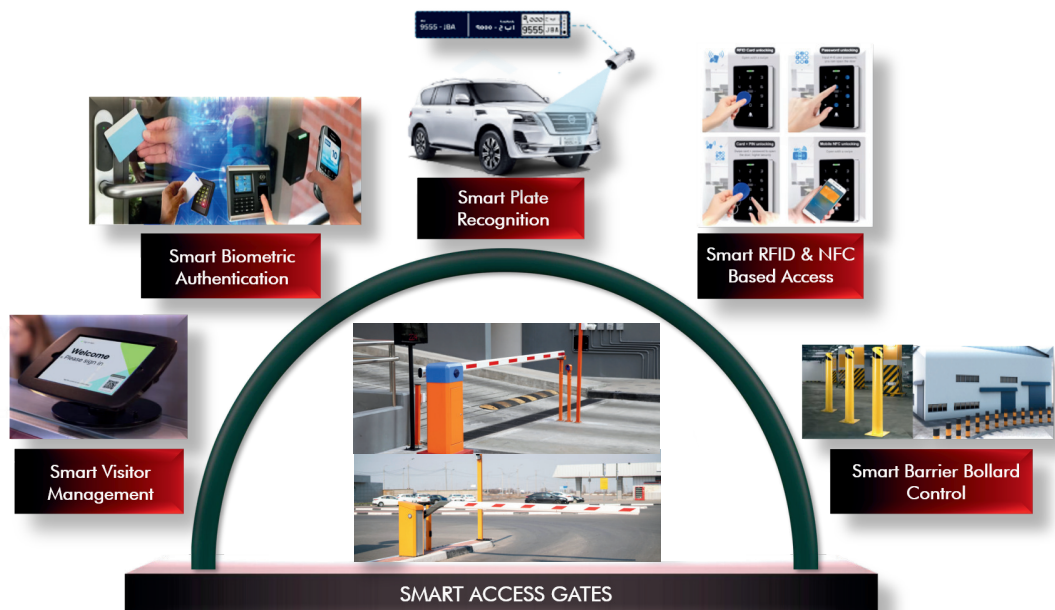
**Smart Security** leverages high-resolution CCTV cameras with embedded AI for intelligent video analytics and threat detection. Real-time alerts and automated responses enhance security posture and reduce incident response times. Integration with fire, smoke, and intrusion detection systems provides comprehensive protection. These systems deliver proactive surveillance and forensic capabilities for diverse environments.

## SMART PARKING



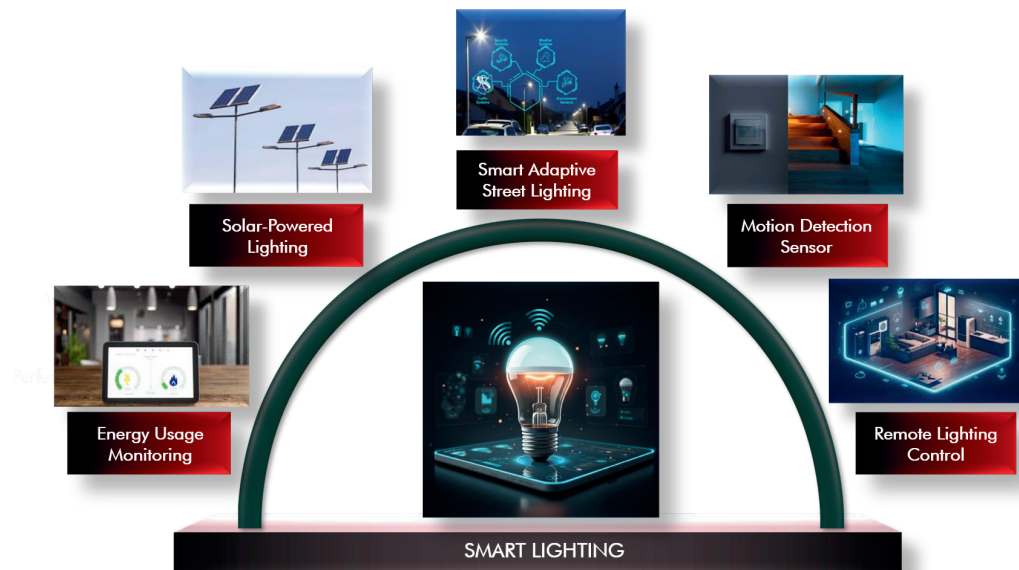
**Smart Parking solutions** deploy networked IoT sensors for real-time occupancy monitoring and dynamic space management. Integrated digital platforms provide users with guidance and automated payment processing. This technology minimizes traffic congestion, optimizes parking utilization, and enhances urban mobility. Data analytics offer valuable insights for future parking infrastructure planning.

## ACCESS GATES



**Smart Access Gates:** Employing biometric authentication, RFID, and NFC technologies, our **Smart Access Gates** deliver secure and automated entry control. These systems integrate advanced visitor management and automated barrier mechanisms. Centralized management platforms provide audit trails and enhance operational oversight. This ensures efficient and secure access for authorized personnel and vehicles.

## LIGHTING SOLUTIONS



**Smart Lighting Systems:** Adaptive **Smart Lighting** systems employ networked LED fixtures with integrated sensors for dynamic illumination control. Remote management platforms enable scheduling, dimming, and energy optimization. Data analytics provide insights into energy consumption and maintenance needs. This technology enhances public safety, reduces energy expenditure, and supports sustainable urban development.

## NETWORK & TELECOM SOLUTIONS



With our **Network & Telecom Solutions**, we deliver high-availability connectivity through resilient network architectures and proactive monitoring. Network Operations Centers (NOC) ensure continuous uptime and facilitate rapid issue resolution. Network Monitoring and maintenance, Integrated security protocols and intrusion detection systems.



## BUILDING MANAGEMENT SYSTEM (BMS)



The **Building Management System (BMS)** offers integrated control and monitoring of HVAC, lighting, fire safety, and security systems. Data-driven optimization enhances energy efficiency and reduces operational expenses. Real-time alerts and remote access capabilities enable proactive maintenance and issue resolution. This system contributes to improved occupant comfort, safety, and building performance.

## WASTE MANAGEMENT



The Waste Management utilizes sensor-equipped bins and intelligent routing algorithms to optimize collection schedules and logistics. Data-driven insights enable efficient resource allocation and reduce operational costs. Integration with recycling facilities enhances material recovery and promotes circular economy principles. This contributes to cleaner urban environments and improved sustainability metrics.



## COMMAND CONTROL CENTER (C3)



The **Command & Control Center (C3)** provides a unified, real-time operational view across security, surveillance, and emergency response systems. Advanced analytics and automated workflows enable rapid incident assessment and coordinated resource deployment. Integrated communication platforms facilitate seamless information sharing and decision-making. This centralized hub enhances situational awareness and improves organizational responsiveness.

## ELECTRONICS MANUFACTURING



**Electronics Manufacturing** encompasses comprehensive services from PCB design and architecture to SMT assembly and rigorous testing. Efficient supply chain management and component sourcing ensure cost-effective production. Integration of Industrial IoT (IIoT) enables process monitoring and optimization for enhanced throughput. Adherence to stringent quality control standards guarantees reliable and high-performance electronic products.

## WE SUPPORT VARIOUS INDUSTRIES



We provide comprehensive support to a wide range of industries in Saudi Arabia, delivering specialized solutions tailored to meet the unique demands of each sector with precision and expertise.

## THEY ALL CHOOSE PERFECT VISION



Growing Together with Our Customers

## PROJECT VISUALS - CASE STUDY

We have enhanced operational safety and efficiency at major sites including Neom, Schlumberger, Aramco, and SLB through the deployment of advanced technologies such as Proximity Warning Alert Systems (PWAS), Load Moment Indicators (LMI), Driver Monitoring Systems (DMS), Smart Helmets, Air Quality Monitoring Systems (AQMS), Tower Lights, and GPS solutions.

Following these installations, comprehensive operator training sessions were conducted at the International Maritime Industries (IMI) to ensure effective utilization of the LMI systems, underscoring our commitment to safety and technological integration across these significant projects. Below are few visuals.

Neom  
Visuals



Aramco  
Visuals



Schlumberger  
Visuals



International Maritime  
Industries (IMI)



Visuals from previous and on-going projects



# Perfect *Vision*

LEADING THE WAY TO SAFETY

## مصنع الرؤية المثالية للصناعة PERFECT VISION FACTORY

📍 Novotel Business Park, No. 101, 3rd Floor, Tower 3, King Fahad Road,  
Al Khalidiyah Ash Shamaliyah Dist., Dammam 32232, Eastern Province, KSA

☎ +966 13 893 3338 / +966 59 972 2223

✉ info@perfectvisionksa.com

[www.perfectvisionksa.com](http://www.perfectvisionksa.com)