



SAJTEC

شبه الجزيرة للتقنية

Shibh Al Jazira Technology

About Us

Established in 2005, **SAJTEC** has become a leading provider of intelligent transportation systems, traffic management, security, and communications solutions in Saudi Arabia, aligning with the Kingdom's Vision 2030. Our objective is to address the growing demands of this dynamic market with advanced, evolving solutions.

Central to our operations is our commitment to smart control and management of large-scale integrated systems, essential for both transportation and industrial sectors, mirroring Vision 2030's emphasis on infrastructure and technological progress. We continually stay ahead in technology, exceeding our diverse clientele's expectations, and contributing to the Kingdom's development goals.

SAJTEC offers a comprehensive range of services, including design, engineering, installation, and after-sales support, adopting the public-private partnership model advocated by Vision 2030. Our focus on enhancing expertise through partnerships with international and local suppliers ensures we remain at the forefront of emerging technologies, playing a vital role in advancing the Kingdom's intelligent system solutions in line with its transformative vision.



Our Vision

SAJTEC aims to become a leading system Integrator in the Kingdom of Saudi Arabia, renowned for delivering exceptional Intelligent Transportation Systems (ITS) and comprehensive traffic management solutions. Our focus is on innovation and excellence, striving to meet the evolving needs of modern transportation.

Our Mission

SAJTEC's goal is to be the leading provider of comprehensive solutions and services in Intelligent Transportation Systems (ITS), traffic management, security, and communications, specifically catering to private and government sectors.



Our Strategy

SAJTEC is committed to pioneering technologies and adapting our solutions to meet the evolving project needs within Saudi Arabia and the GCC. We emphasize building strategic relationships with local and international partners to stay ahead in technological advancements.

Our operations are anchored in a reliable system integration process and a commitment to continuous staff development, ensuring superior products and services. Our comprehensive services, including design, installation, commissioning, and after-sales support, provide end-to-end solutions in ITS, traffic management, security, and communications.



Why SAJTEC

SAJTEC team features an exceptional array of professionals, including experienced business analysts, skilled local resources, and expert engineers. This diverse blend of expertise provides us with a substantial advantage in achieving outstanding outcomes for our clients. Our team's diverse skill set is not only tailored to meet the intricate demands of our industry but also ensures a deep understanding of local market dynamics. This synergy of global knowledge and local insight positions us to provide solutions that are both innovative and pragmatically attuned to the specific needs of our clients and local environment reflecting our



commitment to excellence in intelligent transportation systems, traffic management, security, and communications.

Our Values



Innovation and Excellence

At SAJTEC, we are dedicated to leading in technology and innovation. We strive for excellence in every project, delivering advanced and high-quality solutions.



Client-Centric Approach

Understanding and meeting our clients' unique needs is paramount. We tailor solutions to each project's requirements, ensuring effective and efficient service.



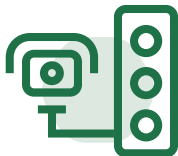
Collaboration and Partnerships

We value strategic partnerships, leveraging them to bring advanced technologies to our projects. This collaborative approach with clients fosters open communication and mutual growth.



Sustainability and Responsibility

As leaders in intelligent transportation systems, we promote sustainable practices. We implement solutions that serve our clients and positively impact the environment and society.



Continuous Learning and Development

Our team's growth is integral to our success. We invest in continuous training, ensuring our staff are skilled, knowledgeable, and ready to deliver top-notch services in an evolving market.



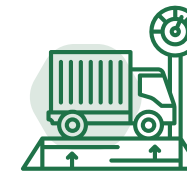
Quality and Reliability

We provide solutions that are effective, reliable, and durable. Quality assurance is ingrained in every stage, from supply and design to after-sales support.



Adaptability and Flexibility

In a rapidly changing industry, adaptability is key. We are agile, adjusting our strategies and solutions to meet the evolving demands of the market and our clients.



Integrity and Transparency

Honesty and transparency are core to our business. We build trust with clients, partners, and our team through clear communication and ethical practices.

Our Products

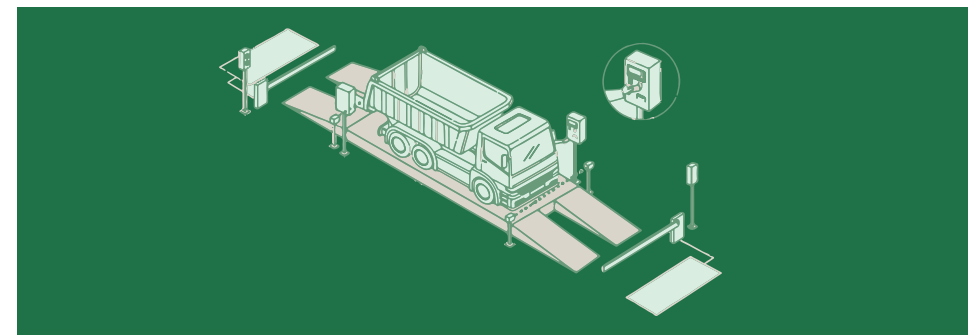
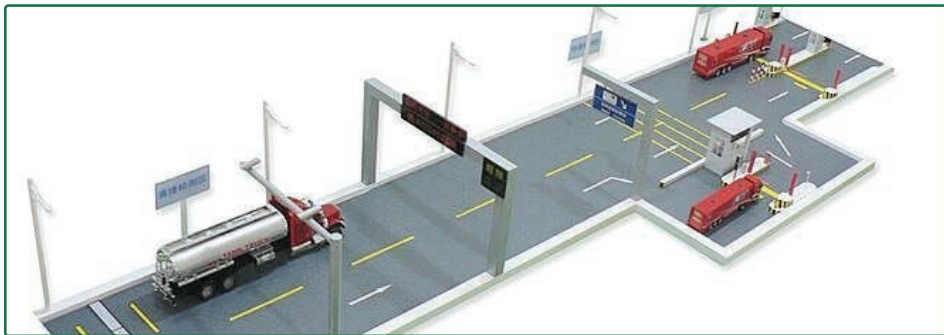
- High-Precision Truck Static Weigh Stations and Weigh-In-Motion (WIM) Dynamic Systems
- Automatic Incident Detection (AID) Systems
- Permanent Traffic Data Collection and Analysis Systems
- ITS
- Innovative Vehicle and Pedestrian Detection Technologies (both in-ground and above-ground)
- Electronic Toll Collection (ETC)
- Enhanced Automatic Number Plate Recognition (ANPR) Systems
- Adaptive Variable/Dynamic Message Signs for Real-Time Communication
- Smart Parking Guidance and Management Systems
- Over-Height Vehicle Detection Systems (OVDS)
- Integrated Weather Monitoring Stations for Environmental Adaptation



- 01 Traffic Management and Control:** ITS enables real-time traffic monitoring and management, helping to ease congestion, optimize traffic flow, and reduce travel times.
- 02 Incident Detection and Management:** The system can quickly identify and respond to incidents such as accidents or road blockages, facilitating faster emergency responses and minimizing traffic disruptions.
- 03 Public Transport Management:** Improves public transit operations through real-time tracking of vehicles, schedule management, and providing passengers with up-to-date information.
- 04 Electronic Toll Collection (ETC):** Automates the toll-paying process, reducing traffic at toll booths and enhancing revenue collection efficiency.
- 05 Parking Management:** ITS helps in efficiently managing parking spaces, providing real-time information about available spots, and guiding drivers to them, thus reducing the time spent searching for parking.
- 06 Traveler Information Services:** Offers real-time information to travelers regarding traffic conditions, route suggestions, travel times, and public transport schedules.
- 07 Safety Enhancements:** Includes features like collision avoidance systems, over-speed warning, and lane departure warnings to improve road safety.
- 08 Environmental Monitoring:** Some ITS systems include weather stations and pollution monitoring, helping to track environmental conditions and make data-driven decisions for traffic management.
- 09 Vehicle-to-Infrastructure (V2I) Communication:** Enables vehicles to communicate with traffic signals, road signs, and other infrastructure elements to improve traffic flow and safety.
- 10 Data Collection and Analytics:** Gathers extensive data on traffic patterns, vehicle movements, and other metrics, which can be analyzed for planning and improving transportation systems.
and more adaptable to the needs of modern cities and their inhabitants.

Dynamic & Static Weighing Systems for Vehicles and Trucks

Dynamic and static weighing systems are crucial technologies in the transportation and logistics industries, designed for accurately measuring the weight of heavy goods vehicles. These systems play a vital role in ensuring compliance with legal weight limits, optimizing load distribution, preventing road damage, and enhancing safety.



Dynamic Weighing

Real-Time Measurement: Vehicles are weighed while in motion, typically at various speeds, allowing for efficient and continuous traffic flow.

High-Tech Sensors: Utilizes advanced load cell, bending plates, shear beam and quartz sensors embedded in the roadway to measure axles and gross vehicle weights accurately.

Load Optimization: Assists in detecting overloading or uneven loading of vehicles, crucial for maintaining road safety and vehicle health.

Data Collection and Analysis: Capable of collecting data for traffic management, road planning, and toll collection.

Vehicle Dimension: Optimizing LiDAR & SICK sensors to accurately measure heavy goods vehicle dimensions.

Static Weighing

Precision Weighing: Vehicles are weighed at a static mode, offering high accuracy for commercial weighing and legal compliance.

Durable Weighbridges: Typically involves weighbridges, large scales that can accommodate entire vehicles, from small trucks to heavy-duty transport vehicles.

Regulatory Compliance: Essential for ensuring vehicles adhere to weight regulations, helping to avoid fines and penalties.

Load Verification: Often used in industrial and commercial settings for verifying cargo weight before and after loading.



Integration with Technology

Automated Systems: Both systems can be integrated with automated QR ticketing and reporting systems for efficient operations.

Connectivity: Equipped with connectivity features for remote monitoring and data sharing with logistics management systems.

Applications Across Various Sectors

Road Transport: Ensuring legal compliance and preventing road damage.

Logistics and Shipping: Monitoring cargo weights for optimal load distribution.

Construction and Mining: Accurate measurement of raw materials and products.

Law Enforcement: Used by authorities for enforcing weight limits and road safety.



Safety and Sustainability

Preventing Road Damage: Helps in reducing road wear and tear caused by overloading.

Enhancing Road Safety Prevents accidents related to vehicle overloading and instability.

Dynamic and static weighing systems, with their distinct features and applications, are indispensable for efficient and safe transportation and logistics operations, contributing significantly to the industry's overall functionality and regulatory adherence.

Advanced Structured Cabling & Wireless Solutions

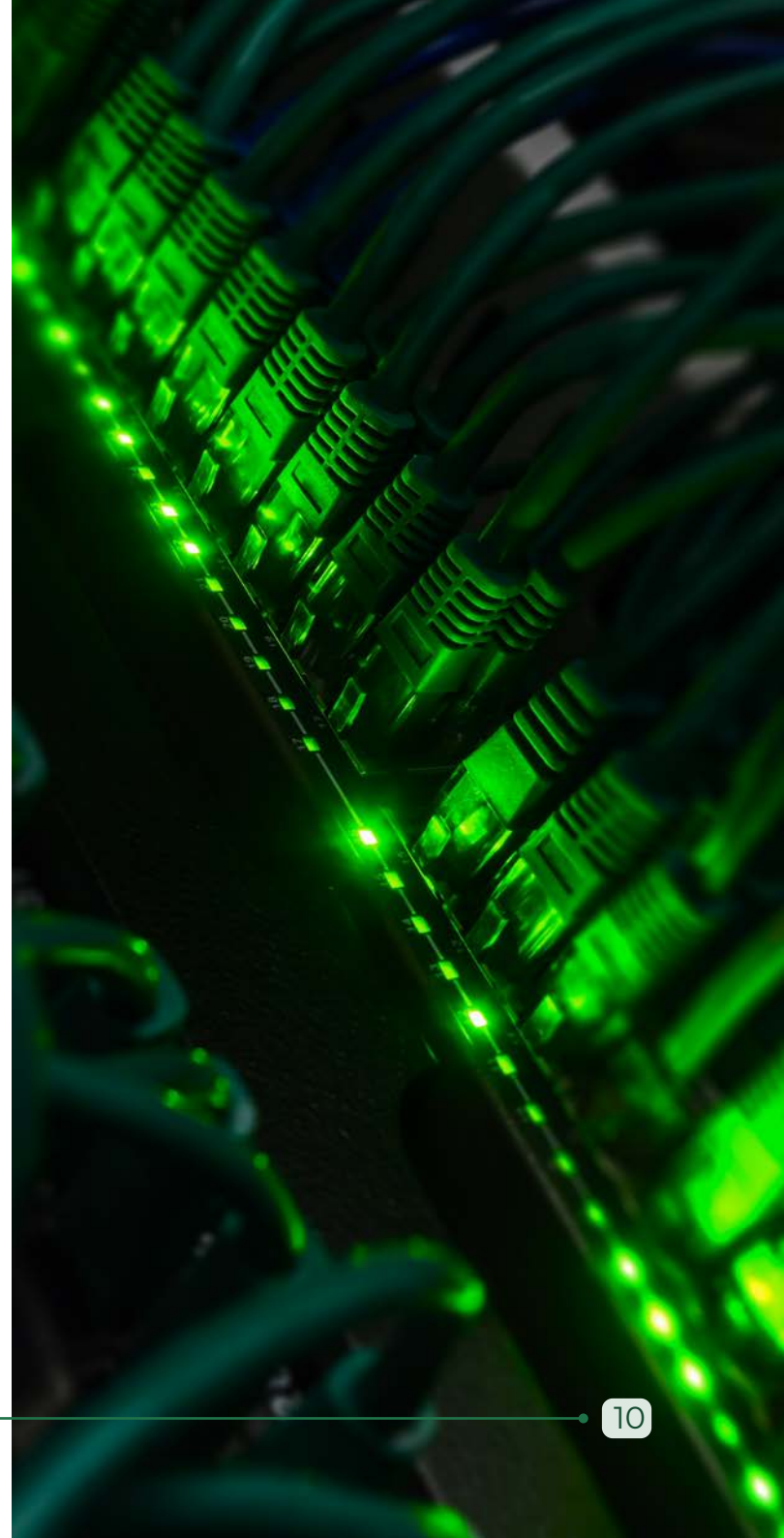
SAJTEC offers cutting-edge ISP/OSP cabling and wireless services to ensure superior network performance and future readiness

Structured Cabling:

- AI-Driven Design:** Optimized cable layout using intelligent planning tools.
- Next-Gen Fiber Optics:** High-density fiber for faster data transmission.
- Precision Techniques:** Advanced splicing and termination for minimal signal loss.
- Comprehensive Testing:** Accurate testing and detailed commissioning.
- Digital Documentation:** Accessible as-built documentation for maintenance..

Innovative Wireless Solutions:

- Advanced System Design:** Scalable, robust wireless networks.
- Latest Hardware:** 5G-ready devices and IoT integration.
- Wide Coverage:** Point-to-point/multipoint systems for optimal throughput.
- Smart Optimization:** Intelligent tools for seamless connectivity.
- Future-Ready Integration:** Supporting Li-Fi, mmWave, and advanced MIMO technologies.



Innovative Wireless Solutions.

Advanced Wireless System Design: Incorporating the latest in wireless technology for robust, scalable network architectures.

Cutting-Edge Hardware Supply and Installation: Providing and installing the latest wireless equipment, including 5G-ready devices and IoT integration capabilities.

Point-to-Point and Point-to-Multipoint Systems: Implementing advanced point-to-point and point-to-multipoint systems, facilitating wider coverage and higher data throughput.

Smart Configuration and Optimization: Utilizing intelligent configuration tools to optimize network performance and ensure seamless connectivity.

Integration with Emerging Technologies: Ensuring compatibility with emerging technologies such as Li-Fi, mmWave communications, and advanced MIMO (Multiple Input Multiple Output) techniques for enhanced wireless performance.



These upgraded communication systems align with the latest technological advancements, ensuring high efficiency, superior performance, and future-readiness in the rapidly evolving field of telecommunications.

Traffic Safety Equipment & Work Zone Safety Products Enhanced with the Latest Technologies and Solutions.

SAJTEC supplies an extensive range of state-of-the-art traffic safety equipment and work zone safety products, including:

Smart Variable Message Signs (VMS)

Solar or mains powered, featuring IoT connectivity for real-time updates and remote management.



Radar Speed Signs with Data Analytics

Capable of collecting speed data for traffic analysis and equipped with high-visibility displays.



Intelligent Temporary Traffic Signals

IoT-enabled for adaptive traffic control, synchronized with surrounding traffic systems.



High-Efficiency Light Towers

Hybrid powered, featuring both solar & fuel technology for higher luminosity and lower energy consumption.



Innovative Truck Mounted Attenuators

Designed with advanced materials for superior traffic impact absorption and safety.



Speed Humps, Traffic Bollards & Reflective Delineators

Made with high-grade, durable materials for lasting visibility and resilience.



Rotating Beacons, Strobes & Light Bars with Enhanced Visibility

Incorporating LED technology for increased brightness and energy efficiency.



Advanced Hazard Warning Lamps

Solar LED-based with automated light intensity adjustment based on ambient light conditions.



High-Durability Traffic Cones

Utilizing UV-resistant materials complying with highest international standards



Intelligent Access Control Systems

SAJTEC specializes in the design, installation, and maintenance of advanced security systems, including the latest in CCTV and ANPR technology.



Enhanced CCTV Systems:



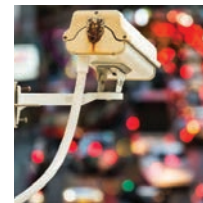
IP-based CCTV:

High-quality video transmission using MPEG4 or H.264 over IP networks.



Comprehensive CCTV Solutions:

IP fixed/PTZ cameras, video management software, network recorders, storage devices, servers, and power supplies.



AI Video Analytics:

Facial recognition, crowd monitoring, and behavior analysis for enhanced security.



4K Ultra HD & Thermal Imaging:

Superior clarity and thermal detection for advanced surveillance.

Advanced ANPR Systems

High-speed vehicle recognition for

- Secure logging
- Highway surveillance
- Speed enforcement
- Blacklist monitoring
- Mobile ANPR
- In-vehicle solutions for real-time tracking.



- **Cloud-Based**
Secure, scalable data management.
- **Smart City Ready**
Integrated for efficient traffic control.



Variable Dynamic Message Signs for Traffic.

Variable Dynamic Message Signs (VDMS) are an integral component of modern traffic management systems, used to communicate real-time information to motorists. These electronic signs display dynamic messages that can be changed or updated quickly in response to varying road conditions, traffic congestion, accidents, construction work, or other factors that may impact traffic flow.



Real-Time Information Display

VDMS are designed to provide real-time updates to drivers, including traffic alerts, weather conditions, accident notifications, and detour information.



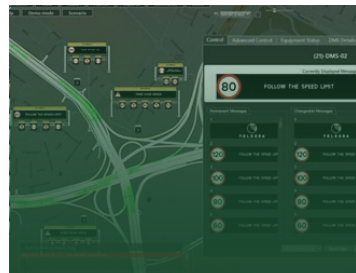
Enhanced Road Safety

By informing drivers about upcoming road conditions, VDMS play a critical role in enhancing road safety, helping to reduce the likelihood of accidents and congestion.



Flexibility in Message Customization

These signs offer the flexibility to display a wide range of messages, tailored to current traffic scenarios and needs.



Use in Traffic Management

VDMS are essential in traffic management, particularly in managing traffic flow during peak hours, emergencies, and around areas of road construction or maintenance.



Technology Integration

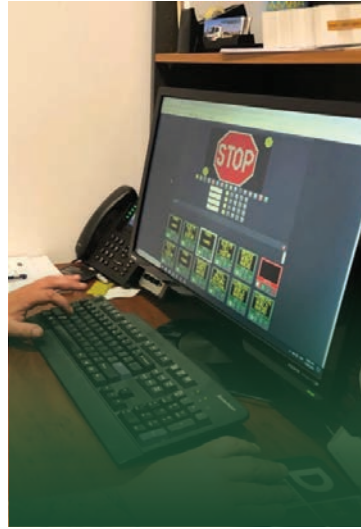
Often integrated with traffic sensors and control systems, VDMS can automatically display messages based on the data received from these systems.





Energy Efficiency and Visibility

Modern VDMS use energy-efficient LED technology, which provides high visibility in various weather conditions and during both day and night.



Remote Operation and Control

They can be operated and controlled remotely from traffic control centers, allowing for quick response to changing traffic conditions.



Diverse Applications

Apart from traffic information, VDMS can also be used for public messages, event information, Amber alerts, and other public service announcements.



Durability and Reliability

Built to withstand various environmental conditions, VDMS are durable and reliable for long-term use.



Smart City Integration

In smart city initiatives, VDMS are integrated into the broader traffic management ecosystem, contributing to more efficient and intelligent transportation networks.

Variable Dynamic Message Signs are a vital tool in the arsenal of traffic management authorities, offering a dynamic and flexible solution to manage traffic flow and enhance road safety effectively.



Traffic Data Collection Systems

Traffic Data Collection Systems are sophisticated setups used to gather and analyze data on various aspects of vehicular and pedestrian traffic. These systems are fundamental in understanding traffic patterns, behaviors, and volumes, providing essential insights for effective traffic management, urban planning, and road safety improvements.



Diverse Data Collection:

These systems collect a wide range of data, including vehicle counts by lane, average speeds, vehicle categories, axle group, axle spacing, as well as traffic volume patterns.



Technological Integration:

Utilize advanced technologies such as inductive loops, infrared sensors, radar, and video analytics to capture accurate traffic data.



Real-Time Monitoring and Analysis:

Capable of providing real-time data, enabling immediate analysis and response to traffic conditions.



Long-Term Trend Analysis:

Helps in studying long-term traffic trends, which is vital for urban planning and infrastructure development.



Traffic Flow Optimization:

Data collected aids in optimizing traffic flow studies, reducing congestion, and enhancing overall road efficiency.



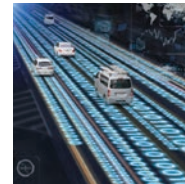
Safety Improvement:

Insights from traffic data are used to identify traffic congestion-prone areas and develop strategies to improve road safety.



Environmental Impact Assessment:

Traffic data helps in assessing the environmental impact of road traffic, aiding in the development of eco-friendly transportation policies.



Supports Smart City Initiatives:

Integral to smart city projects, providing data that helps in the intelligent management of urban traffic systems.



Facilitates Infrastructure Planning:

Data is used by authorities for effective planning and justification of road infrastructure projects.



Enhanced Decision-Making:

Provides transportation authorities with data-driven insights for informed decision-making regarding traffic management and road network improvements.

Traffic Data Collection Systems, with their comprehensive and accurate data gathering capabilities, are indispensable in creating more efficient, safer, and sustainable transportation networks.

SCADA Systems Integration Services

Our company specializes in integrating advanced **SCADA** (Supervisory Control and Data Acquisition) systems, delivering state-of-the-art solutions for industrial

automation and process control. We offer comprehensive **SCADA** solutions that enhance operational efficiency, reliability, and scalability across various industries.



Key Offerings:



SIMATIC WinCC

A versatile system for HMI and SCADA, suitable for everything from single-user to distributed multi-user systems, ensuring optimal performance and scalability.



SIMATIC WinCC OA

Tailored for projects requiring high customization, this solution excels in sectors demanding special system requirements, such as traffic, water treatment, and energy.



SIMATIC PCS 7

This integrated approach goes beyond traditional SCADA by incorporating process control and safety, offering a unified solution for complex industrial processes.



Siveillance Suite

Focused on infrastructure and security management, providing integrated SCADA functionalities for comprehensive surveillance and security.



TIA Portal Integration

Enhances SCADA solutions with seamless automation task management, enabling efficient operation and monitoring.



Our integration services are designed to support digitalization, offering advanced analytics, IoT integration, and robust cybersecurity measures. With cutting-edge technology, we empower businesses to optimize operations, ensure uptime, and confidently face future automation challenges.

Our Partners



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