Proven Track Record

ST Engineering has the extensive experience and domain knowledge to successfully manage more than 370,000 car park lots. In addition, we are providing car park infrastructure maintenance services for more than 2,000 parking devices involving 100,000 parking lots for a major emirate in the United Arab Emirates. We are also deploying trials and providing car park management services for operators and building owners.
Urban City Challenges
Parking remains a challenge for urban cities. Motorists face increasing frustration in search of limited parking space which contributes to traffic congestion and higher carbon emission. Majority of the world’s car park operators and building owners rely on conventional car park systems such as Radio Frequency Identification (RFID), ticketing or manual fee collection, which are intrusive, less efficient and more expensive to operate and maintain.

Cloud-based Platform
The Smart Car Park solution offers cloud-based management of all car park operations and maintenance on a common platform. It optimises operational efficiency and resource management by providing an overview of revenue collection, occupancy statistics, and manages multiple car park systems, sub-systems and apps.

The modular solution leverages Automatic Number Plate Recognition (ANPR) and mobile payment apps to provide seamless and non-intrusive parking services for motorists.

Key Benefits
- Reduce Operational and Maintenance Costs
  - Reduce reliance on manpower
  - Cashless payment to replace ticketing and parking meters
- Increase Revenue
  - Dynamic or premium pricing
  - Data analytics for effective and targeted enforcement
- Provide Actionable Insights
  - Optimise car park lot allocation based on drivers’ parking behaviour (seasonal, handicap accessible, limited time and Electric Vehicle parking)
  - Leverage occupancy trends and profiling to enhance city planning, advertisement and tenant mix
- Enhance Parking Experience
  - Seamless payment
  - Easy search for parking lot availability and rates
  - Secure parking space with advanced booking function

Solutions
For Car Park Owners and Operators
- Smart Car Park Management Platform
  - Unified management system
  - Operations dashboard for preventive and predictive maintenance
  - Simplified parking tariff management
- Access Control Solutions
  - Integrated barrier system
  - ANPR system
  - Visitor management system
- Parking Guidance System
  - Ground-based magnetic sensor
  - Ultrasonic sensor
  - Video-based sensor
- Electric Vehicle Charging
  - Fast charging stations with multiple socket configurations
  - Remote tariff control and monitoring

For Motorists
- Mobile Application
  - Available parking search and guidance
  - Season parking application
  - Digital payment and billing history

Cloud-based Smart Car Park Platform
- Parking Management Platform
  - Tariff management
  - Season parking
  - Operations dashboard
  - Access control
  - Revenue overview
  - Asset health status
  - Data analysis
  - User management
- Parking Guidance System
  - Reservation
  - Tiered pricing
  - Video playback
- Electric Vehicle Charging and Management
  - Tariff management
  - Service provisioning
  - Payment / offers
- Mobile Application
  - Availability
  - Reservation
  - Mobile Point of Sale (mPOS)
  - Payment / offers
- Enforcement Application
  - OCR reader
  - Evidence logging
  - Mobile ticketing
  - Hotspot trending

Modular Car Park Management Solution
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