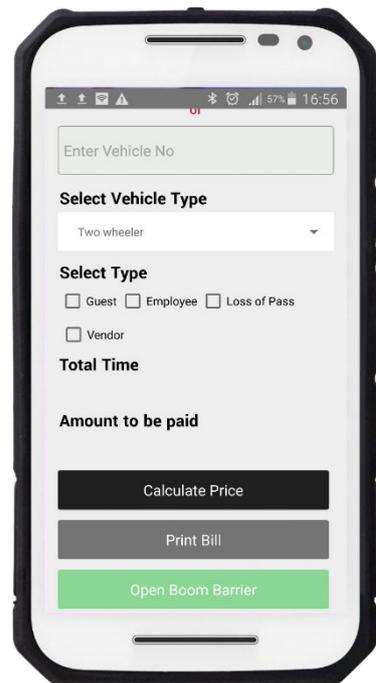


Handheld Point of Sale Ticketing Device

Our Parking Access Control / Management System consists of a ruggedized Handheld POS Device. It has an integrated Credit/Debit/CPC card Reader, QR Scanner and Thermal Receipt Printer. It also comes with serial & USB port for external connectivity. It provides distinct audible and visual feedback upon successful completion of transactions or when encountered with card / ticket reading error. The handheld comes in a durable pouch with a long handle that can be hung over the neck. It is light weight (less than 500gm) and can be worn over the neck throughout the day. Upon continuous usage, the device battery lasts for more than 8 hours and it can be recharged quickly to full capacity in less than 4 hours. The standby time of the battery is more than 5 days.

It gets the parking lot timings, fees, reservations etc. from the CMS through wireless connection. Any future-dated parking fees are stored locally and automatically activated on the due date. All logged transactions contain the Parking Location, Parking Operator, Timestamp, Device Id, Employee Id, Ticket no., Duration, Fare, Payment Type, Card No., etc.

The handheld POS is used for both entry ticketing and exit payment. Upon vehicle entry, a paper ticket is generated for the commuter. If the commuter has done prior reservation, then the QR code of the reservation is read and then a ticket is generated. At the time of leaving the parking lot, the commuter shows the ticket generated at entry. It scans the ticket and calculates the parking fare based on the duration. The commuter can make the payment either through Credit/Debit/CPC card, cash, e-wallet etc. Once the payment is done, payment receipt is generated for the commuter and a "transaction complete" message along with audible sound is produced. Apart from entry ticketing and exit payment functionality, the POS device can also be used to display the balance in a CPC card.



It is designed to work both in online and offline modes. In the Online mode, the POS can connect to the Central Management Server (CMS) and all the entry/exits transactions are immediately recorded in the central servers. In the Offline mode, the POS operates independently due to communication issues with the CMS. In this mode, it records all the transactions locally and when the communication is restored to CMS, it transfers all the transaction logs to the CMS. It deletes the stored transactions only when the transactions are successfully transmitted to the CMS. It has enough storage (both internal & external included) to log the transactions for more than a week. This greatly enhances the usability of our solution even in the event of network outage. It gives a warning when the storage reaches the admin configured threshold limit. Once the storage is full, it stops storing any new transactions until all the stored transactions are uploaded to the CMS.

POS SPECIFICATION

Parameter	Value
Model	POS-SPM-01
OS	Android
RAM	2 GB
Item Weight	155 g
Product Dimensions	14.2 x 7.2 x 1.2 cm
Connectivity	Bluetooth, WiFi, GSM (2G/3G/4G)
Display Screen	TFT LCD Corning Gorilla Glass 3 capacitive touchscreen
Input	Touchscreen
Protection	Outdoor use & water proof

BLUETOOTH THERMAL PRINTER SPECIFICATION

Parameter	Value
Micro Processor	ARM9 32-bit Core
CPU Speed	400MHz
Flash Memory	256MB
Memory	128MB
Operating System	Linux
Communication	Bluetooth & USB
Operating Temperature	0 – 55C
Humidity	Up to 95% RH, non-condensing
Weight	450gm
Dimensions	141x83x50 (LxWxH)
Battery	Lithium-Ion, for 12 hours of operation
Printer	2.25" Thermal Graphic printer 8 dots/mm
Cabinet	Aesthetically designed ABS & Poly Carbonate plastic housing