

The logo for NEXPA, featuring the word "NEXPA" in a bold, sans-serif font with a red diagonal slash through the letter "X".

NEXPA

PMS : Parking Management System
VPGS : Video-based Parking Guidance System
Auto Payment Station (Find-My-Car)
Mobile Parking Reservation

NEXPA SYSTEM

Manila Bay, Ayala Malls, Philippines

CASE STUDY



Project background



<Introduction of Ayala Malls Manila Bay>

Ayala Malls Manila Bay is one of the largest complex malls in the Philippines. Ayala Malls Manila Bay is owned by Ayala Land Inc. under the Ayala Malls brand. They selected NEXPA's SMART PARKING SOLUTION for the convenient operation regarding their large parking infrastructure. SMART PARKING SOLUTION transformed the mall into one of the first SMART PARKING enabled sites in the country.

<Challenges>

The main purpose of this project is;

- ① PMS: Ticketless parking system
- ② VPGS: Construction of Security and convenient system
- ③ Auto Pay Station: Advance and Exit payment, Find-My-Car
- ④ Pre-Booking: Mobile application

Project Solutions

Parking guidance system based on video technologies, including parking lot surveillance systems through the single framework, enables virtually unmanned day to day operations.

VPGS

KIOSK

Various payment method integration with G-cash, RFID Card and BPI. (G-cash, BPI - Using QR code)

<Requirement>
Unmanned smart parking system

Using LPR machines and integrated with RFID ticket system for License Plate Recognition and plugs-ins such ACCESS-LIST Management, Gate Side Synchronization/Controlling System.

PMS

Mobile Web-app functionality

Payment, Find my car, reservation functionality include

NEXPA Proposed Solution Features

SMART

01

Automatic payment solution enables ticketless parking system.

State-of-the-art
TECHINOLOGY

02

NEXPA's solution uses state-of-the-art devices developed with our proprietary technology.

AUTOMATIC

03

By using LPR machines and Auto payment stations, all process will be automatic.

EXPANDABILITY

04

Based on various PMS/ PGS such as ticketless and non-stop system, we can show the excellence of our products to the rest of the world.

Customer
Satisfaction

05

NEXPA's solution is easy to run for the parking lot operator and is convenient for the parking lot visitors.

NEXPA Proposed Solution Major Components ①



Uni-directional IP camera-12 MP

- Indicates parking availability
- Detect 3 slots with 1 camera
- 12 mega-pixel
- Multi-streaming
- Built-in 256 color LED indicator



Single camera LPR machine

- Recognizes front license plates
- Built-in LED display
- IR/White LED light



Dual camera LPR machine

- Recognizes front and rear license plates
- Built-in LED display
- IR/White LED light

NEXPA Proposed Solution Major Components ②



Mini LPR

- Recognizes front or rear license plates
- Designated to accommodate to challenging installation environment



42 inches Auto Pay Station

- Various payment types:
Cash/Card/e-wallet
- Optional Find my Car function with vPGS
- Commercials and advertisements can be displayed on the main screen



RFID Dispenser/Collector

- Standalone type, VoIP included
- Compact size design to save the installation space
- Dispense Mifare card 13.56MHz card with read and write module

NEXPA Proposed Solution Major Components ③



Fee Calculator

- PC type, Cash box included
- Prompt payment calculation
- Vehicle number can be printed on the receipt
- Various discount options
- Daily, Monthly, Yearly vehicle access date can be provided.



Floor/Zone Guidance Display

- Ceiling type
- Provides optimal parking route
- Dynamic LED display
- Customizable design



Outdoor Guidance Display

- Standing type
- Three colors for different status (Green-available, Red-congested or full)
- Bright LED module
- Customizable size

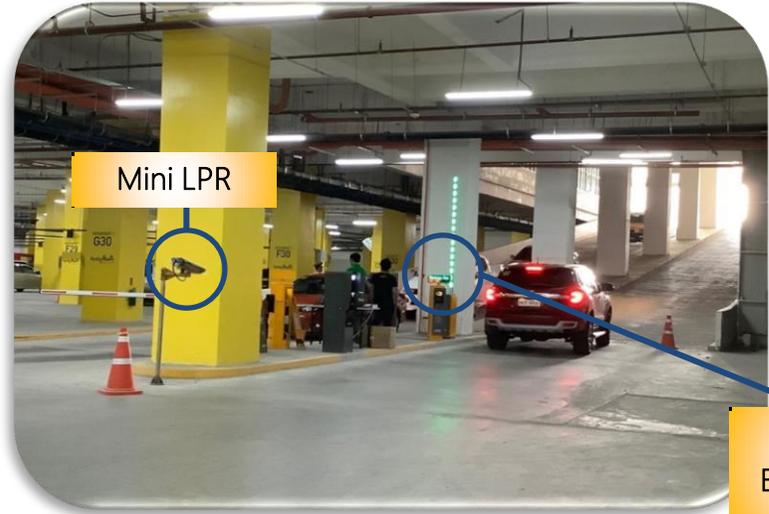
Installation pictures



Dual camera LPR machine



Guidance Displays

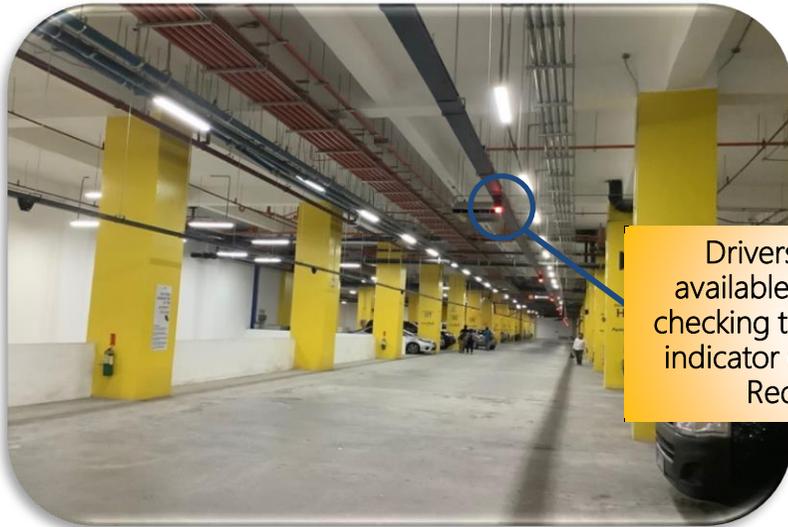


Mini LPR

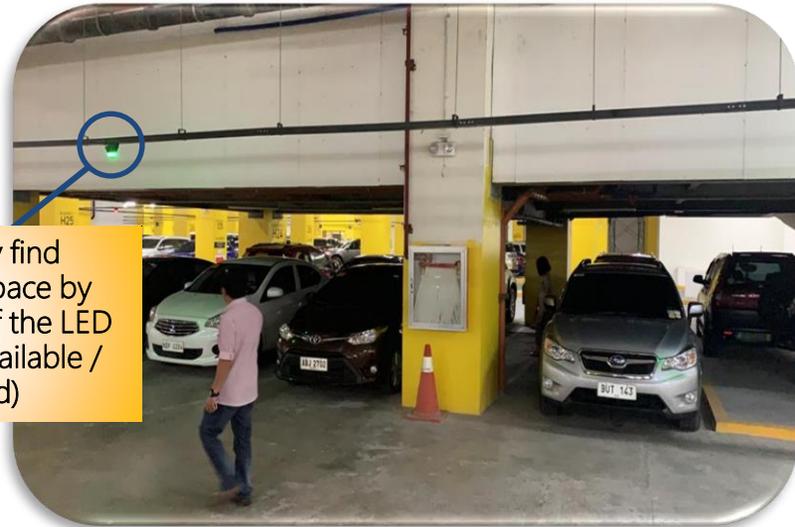
Automatic Barrier Gate



Completion pictures



Drivers can easily find available parking space by checking the color of the LED indicator (Green: Available / Red: Occupied)



Drivers can check the floor/zone guidance signage to decide where to go.



Main entrance guidance display shows the real-time parking lot occupancy by floor level of the entire parking lot.

Results

- NEXPA installed smart parking system into Ayala malls Manila bay, and is operating the mall as an unmanned system.
- Our system is not only accessible for customers but it is also cost efficient. In visitors' perspective, they can use various type of payment method and can easily find an available parking space through guidance signage. As one of the very first smart parking system in Philippines, this Ayala mall Manila bay case will make their parking environment more smarter/more intelligent.
- Based on the Ayala malls Manila bay case, the NEXPA smart parking solution is being expanded to the parking management markets in the Philippines.

Ayala Malls
Feel it. Love it.