

100% CASHLESS SERVICE PROVIDER

BOOST YOUR REVENUE
WITH HASSLE-FREE PARKING
EXPERIENCE FOR YOUR CLIENTS

The Higher Level of CONVENIENCE



**STANDALONE
E-PARK STATION**

ACCESSORIES



**INTERFACE
3RD PARTY DEVICE**



**SEASON
MODULES**



**INTEGRATION
VARIOUS CONTROLLER**



PGS



ANPR

LAWAS ARIF SDN BHD

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LAWAS ARIF SDN BHD

Reg No.: 815024-M (200801013735)

Lawas Arif Sdn Bhd (LASB) is established since 2012 with the passion of driving the car park industry towards cashless transaction in Malaysia.

LASB is an Information Technology company specializing in car park technology and cashless parking solutions. LASB started as a car park solutions provider. We started developing E-Payment solutions in 2012 and qualified to be the cashless parking system integrator with the well known company Touch 'n Go Sdn Bhd

In year 2013, LASB officially implemented our pilot system at a prestigious KL shopping mall car park. We have since provided our products and services to more than 80 parking sites in Malaysia year 2020 and increasing. Our team consist of a group of dynamic and dedicated individuals with wide experience and expertise in providing cashless car park solutions.

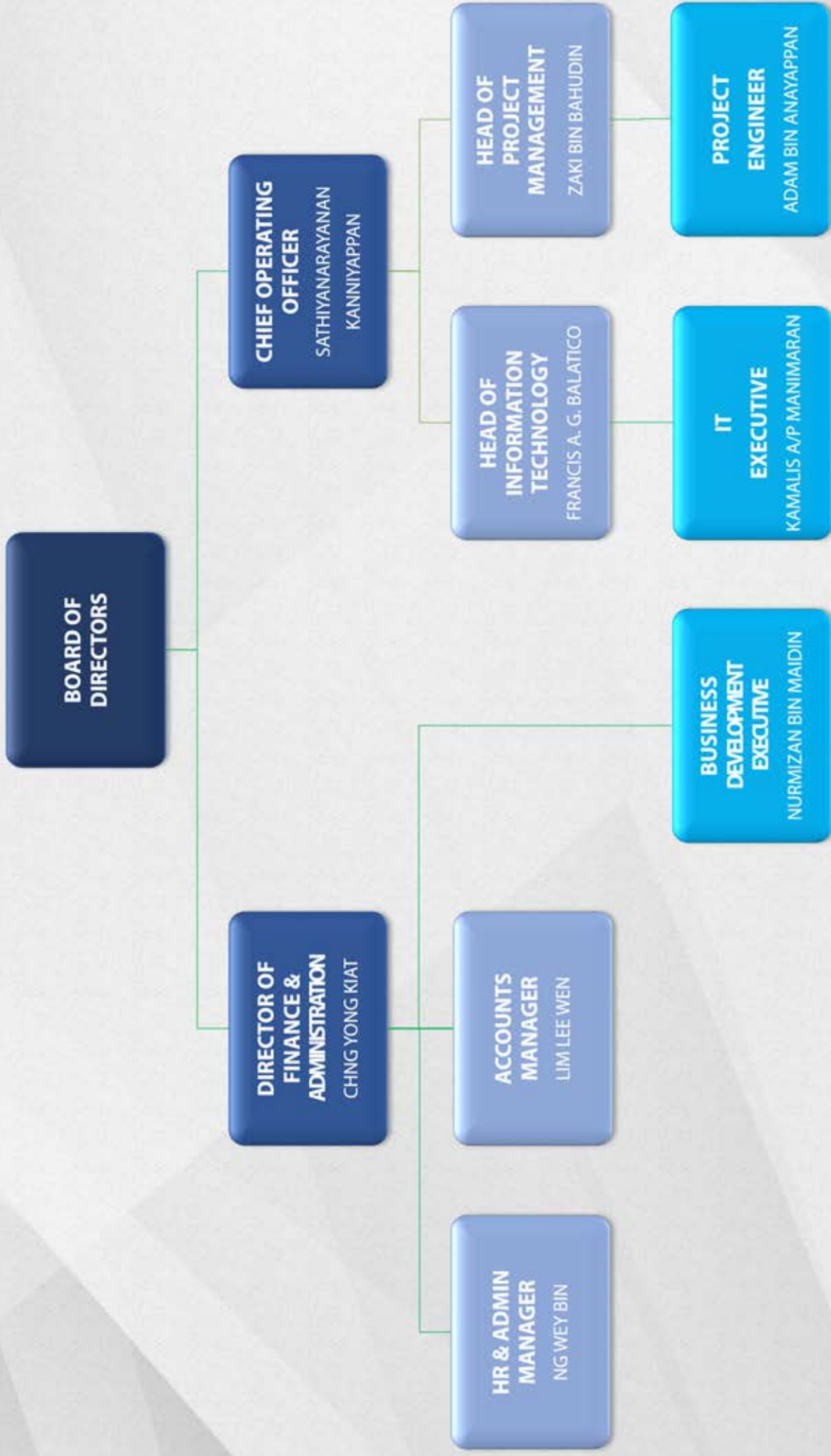
With these vast experiences which we congregated and garnered over for the past seven years, now we expanded into other E-Payment platform and product range to suit our expansion plan and gearing into the Malaysia arena.

We are riding on the cashless wave and tapping on Malaysia's vision of becoming a smart nation.

We committed to ensure all our services meet all our clients stringent requirements and expectations. LASB is pursuing client's needs and satisfaction in order to preserve long terms benefits to our valued clients.



ORGANIZATION CHART



OUR PRODUCT E PARK STATION

We specialize in a parking management system that considers security features to be of the utmost importance for the past 18 years. Our equipment exhibits the best features that can assist in the management of parking.

Real Time Monitoring

Users are able to view entry and exit station transactions real time at the parking site.

Unbeatable Scalability

The E Park Station is designed to handle low to heavy traffic parking site without sacrificing efficiency.

Robustness & Reliability

The E Park Station's stand-alone feature enables each station to work independently thereby ensuring perfectly smooth operations.

Outstanding Design

The E Park Station is user-friendly and multi-protocol which allow motorists to opt for multi payment platform. With an integrated Industrial PC (IPC) the E Park Station can operate without relying on the server for the major functions. E Park station also uses an industry-proven card reader to accurately read card information at very fast speeds.



E PARK V1.0



E PARK V2.0

Supply Voltage

230 VAC 50 Hz

Power Consumption

90 W

Operating Temperature

-20°C to 40°C

Display

7" LCD Colour Display

Housing Design

SUS 304 Stainless Steel

Base Frame

SUS 304 Stainless Steel

Weight

±22 kg

Dimension (W x D x H)

300mm x 200mm x 1200mm

Built-in Components

- 7 " Colour LCD Display
- Mifare/Desfire Card Reader w I/O Module Controller
- IPC w built-in Card Mapping Licensing
- 12 V-SMPS Power Supply
- Cable & Accessories

Provision c/w spaces for future upgrade • IP Intercom • IP Pin Hole CCTV • LPR Season Module • Third Party Interface Season Module

E PARK V2.0

Supply Voltage

230 VAC 50 Hz

Power Consumption

90 W

Operating Temperature

-20°C to 40°C

Display

7" LCD Colour Display

Color Code

Black 7013 Grey 8023

Housing Design

Powder Coated Mild Steel

Base Frame

Powder Coated Mild Steel

Weight

±25 kg

Dimension (W x D x H)

326mm x 178mm x 1300mm

Built-in Components

- 7 " Colour LCD Display
- Mifare/Desfire Card Reader w I/O Module Controller
- PCI Certified MSR/Smart Card Reader
- IPC w built-in Card Mapping Licensing
- 12 V-SMPS Power Supply
- Cable & Accessories

Provision c/w spaces for future upgrade • IP Intercom • IP Pin Hole CCTV • QR Code Payment Module • E-Wallet Payment Module • LPR Season Module • Season Module

OUR PRODUCT CPMS

SPECIFICATIONS

PROCESSOR
Intel® Core™ i3-9100 (4.2 GHz, 64MB cache, 4 cores)
MEMORY (STD/MAX)
8GB DDR4-2400 DIMM (2x4GB)
RAM
EXTRA RAM SLOT
1
HARD DISK DRIVE
1TB 7200 RPM SATA 6G 3.5 HDD
OPTICAL DRIVE
DVD-Writer
WIRELESS
802.11 a/b/g/n/ac (1x1) and Bluetooth® 4.2 combo
OPERATING SYSTEM
Windows 10 (64-bit)
CHIPSET
Intel® H370
GRAPHIC CARD
Intel® UHD Graphics 630
AUDIO
ALC3820-CG
5.1ch support
NETWORKING
Integrated 10/100/1000 GbE LAN
CARD READER
5-in-1 Media Card Reader
KEYBOARD & MOUSE
1 x Universal USB Wired Keyboard
1 x Universal USB Wired Optical Mouse
DIMENSIONS
9.26 x 29.2 x 29 cm (WXDXH)
WEIGHT
4.8 kg

CENTRAL PARKING MANAGEMENT SYSTEM (CPMS)

An efficient Central Parking Management System helps avoid unnecessary traffic congestion, improves security, and enhance revenue benefits of car park operators. LASB has constantly develop CPMS that improve parking efficiency meantime focused on enhancing technology differentiation and delivering integrated, value added solutions.

KEY FEATURES

Multiple Collections Reports & Consolidated Information

LASB CPMS designed with the ability to generate multiple reports for auditing purposes, statistical analysis, and financial management.

Customization

We design and produce advanced systems for automatic management of all types of car parks offering end to end services.

Configuration / Reconfiguration

Setting of different configurations for each car park and reconfiguration is allowed to meet clients' needs under certain circumstances.

Multiple Car Parks Monitoring

Monitor and control remotely several car parks by using LASB CPMS allows CPMS user to manage entry/exit access, payment methods, account data, and statistics, all consolidated data for an efficient management.

User-friendly interface

Screens layout have been specially designed to meet users' satisfaction. The whole system is integrated into the Windows™ environment and built in .Net, so it is web-based, responsive for PC, tablets and smartphones.

Reliable

The system is designed with a robust architecture and supports redundancy, thus ensuring high reliability.



OUR PRODUCT PGS

With increasing automobiles on the roads, enhancement of parking efficiency at car park is the main concern of car park users.

Parking Guidance System shows the numbers of available parking space at every direction, which could guide the driver to the available parking space efficiently. Parking light which is integrated with PGS Sensor gives a visual guidance of the parking space by color.



Outdoor Display



PGS Sensor



Indoor Screen



Zone Controller Unit



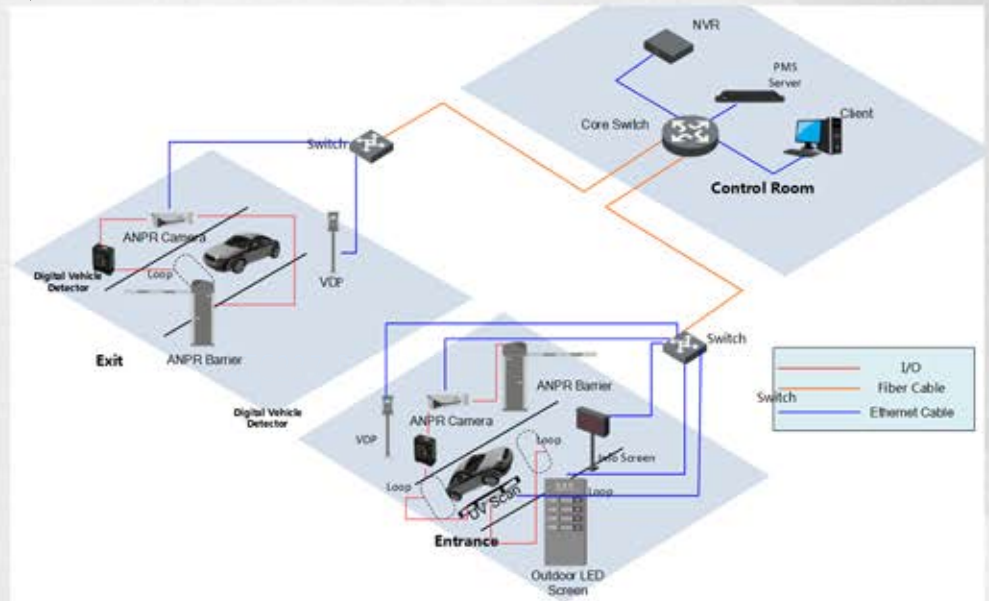
PMS Display



Central Controller Unit

OUR PRODUCT ANPR SYSTEM

System Overview



With increasing automobiles on the roads, enhancement of parking efficiency at car park is the main concern of car park users.

ANPR System (Automatic Number Plate Recognition) is an automated management system that minimises traffic congestion at the ingress and egress accesses of the car park which can be used for billing and security purposes.

ANPR system identifies cars' license plate number within 1 second with $\geq 98\%$ plate capture rate by video; recognition rate $\geq 95\%$ accuracy.

☑ HIGH TRAFFIC EFFICIENCY

☑ HIGH SECURITY

☑ LOWER COST

HOW?

☑ ANPR Access Control

Only opens barrier for white-listed plate numbers. Transaction will be calculated and billed to user via mobile applications.


☑ Parking Guidance

Vehicle counting by software.

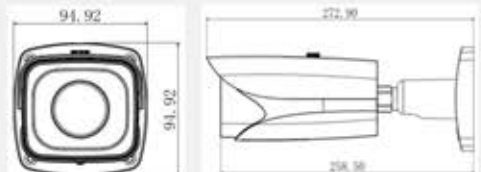
☑ Entrance Management Software

Safety in car park is improved through real-time monitoring and recording of incidents. Historical search for car info is available.

Technical Specification

CAMERA	
IMAGE SENSOR	1/2.8" 2Megapixel Starvis R CMOS
EFFECTIVE PIXELS	1920(H) x 1080(V)
SCANNING SYSTEM	Progressive
MINIMUM ILLUMINATION	0.005Lux/F1.6 (Color), 0Lux/F1.53(IR on)
ELECTRONIC SHUTTER SPEED	1/50~1/10000
IR DISTANCE	3~8m
IR LEDS	4
LENS	
LENS TYPE	Motorized/ Auto Iris(DC)
MOUNT TYPE	BOARD-IN TYPE
FOCAL LENGTH	2.7mm~12mm
MAX APERTURE	F1.6
ANGLE OF VIEW	H: 101°~ 36° V:53°~20°
FOCUS CONTROL	AUTO
FOCUS DISTANCE	3-8m
RANGE	
FOCUS WIDTH RANGE	1 LANE
INTELLIGENCE	
LPR FUNCTION	EMBEDDED WITH LPR ENGINE IN THE CAMERA
DETECTION MODEL	Loop or video detection
SNAPSHOT	OVERVIEW AND CUTOUT OF PLATE FOR PICTURE
OSD OVERLAY	Time, place, plate number, lane No
WHITE LIST	10000 RECORDS DATABASE INSIDE THE CAMERA
BARRIER CONTROL	1 ch relay out to control the barrier
ACCESSORIES	
1.2 M POLE MOUNT	

VIDEO	
COMPRESSION	H.265/H.264M/H.264H/H.264B
RESOLUTION	1080P(1920x1080) / 720P(1280x720) / D1(704x576)
FRAME RATE	MAIN STREAM: 1080P(1~25/30FPS) SUB STREAM: 720P/ D1(1~25/30FPS)
BIT RATE CONTROL	CBR VBR
BIT RATE	32 ~ 16384 KBPS
DAY/NIGHT	Auto(ICR) / Color / B/W
BLC MODE	BLC,HLC,WDR(140DB)
DUAL STREAM	Support, Main stream and sub stream
WHITE BALANCE	AUTO/MANUAL
GAIN CONTROL	Auto/Manual
NOISE REDUCTION	3D
NETWORK	
ETHERNET	RJ-45 (100/1000BASE-T)
PROTOCOL	IPv4/IPv6, HTTP, TCP/IP, UDP, NTP, DHCP, DNS,
INTEROPERABILITY	CGI, ONVIF
MAX. USER ACCESS	20
EDGE STORAGE	MICRO SD, MAX 64GB STATUS DISPLAY LOCAL PC FOR INSTANT RECORDING
WEB VIEWER	IE9,IE10,IE11, Chrome V33, V41
MANAGEMENT SOFTWARE	DSS, PMS
CERTIFICATIONS	
CERTIFICATIONS	CE FCC
DIMENSIONS (MM/INCH)	



OUR PRODUCT

DETEC QR

As more and more customers are going to cashless in order to minimise contact, now is the best time for business to go cashless. E-Wallet could another option to be the platform for user to pay and operator/building onwner to collect the parking fee. Car Park user won't have to worry about touching cash, and operator/buildings owner operating business more hygienic for user's reassurance.

- ☒ **PLUG AND PLAY**
- ☒ **AUTO-DETECT**
- ☒ **SENSITIVE & ACCURATE**

SPECIFICATIONS:

PHYSICAL CHARACTERISTICS

Dimensions (L*W*H): 110mm*83.5mm*75mm

Weight: 275g

ENVIRONMENTAL

Operation Temperature: 0° to 40°C

Storage Temperature: -40° to 70°C

Operation Humidity: 5 - 90%

Storage Humidity: 5 - 90%

Ambient light: 4000lx max

Shock drop test: 1.2m drop onto concrete surface

ELECTRICAL

Interface: USB HID KEYBOARD/USB VCP/

Voltage requirement: 5VDC±10%

Current consumption: Max:190mA

OPTICAL CHARACTERISTICS

Photo sensor: CMOS array sensor

Sensor resolution: 640X480 pixels

Aim light source: White LED

SCANNING PERFORMANCE

Min resolution: 1D: 5mil(0.127mm)

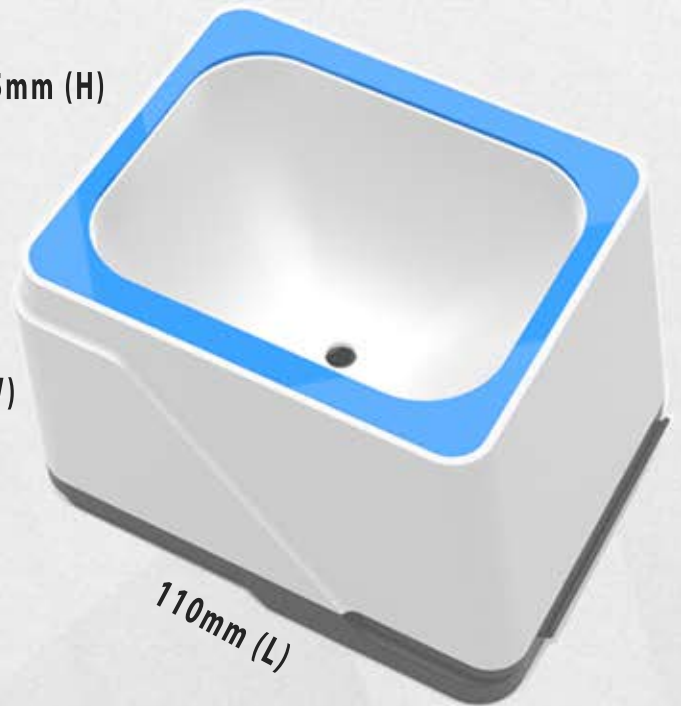
Min.PCS value: > 25%UPC/EAN 13 (13mil)

Field of View: 53°(H),40°(V)

75mm (H)

83.5mm (W)

110mm (L)



SUPPORTED BARCODE SYMBOLOGIES

1D:

Code128,GS1-128,AIM-128,EAN-8,EAN-13,ISSN, ISBN,UPC-A,UPCE,Interleaved 2 of 5 (ITF), Matrix 2 of 5, Industrial 2 of 5, Standard 2 of 5 (IATA 2 of 5), Code 93, Code 11, Code 39, Codabar, GS1-Databar (RSS), Plessey, MSI-Plessey

2D: PDF417, Data Matrix, QR Code

PROJECT REFERENCE

SHOPPING MALLS

PAVILION KUALA LUMPUR
CAPSQUARE MALL
MYTOWN CHERAS
ATRIA SHOPPING GALLERY
BANGSAR SHOPPING CENTRE
PLAZA BATAI
C MART ARAU
PEARL CITY MALL
IKEA BATU KAWAN
IKEA CHERAS
IKEA TEBRAU
MYDIN USJ
MYDIN MERU RAYA
MYDIN MITC
PLAZA LOW YAT
THE ZON JB 100%
QUILL CITY MALL
QUARZA MALL
ECO SANCTUARY MALL
BUKIT BINTANG CITY CENTRE
TOPPEN SHOPPING CENTRE
SEVENTEEN MALL
CAPITAL 21
THE USJ 19 MALL
AMCORP MALL
OLE OLE SHOPPING CENTRE
JOHOR PREMIUM OUTLET
ECONSAVE KOTA BHARU

HOTELS

SRI SAYANG RESORT 100%
GRAND HYATT KL 100%
THE TROVE JB
HILTON KL

MULTIPLE-DEVELOPMENT / COMMERCIAL BUILDINGS

NUCLEUS TOWER
MENARA KEN TTDI
MENARA PRUDENTIAL 100%
Q SENTRAL
ONE CITY 100%
SUASANA ISKANDAR
ICC PUDU
STARPARC POINT
WISMA CONLAY
WISMA COSWAY
BEDFORD BUSINESS PARK 100%
PACIFIC PLACE 100%
PINNACLE PETALING JAYA
3RD MILE SQUARE 100%
EQUATORIAL PLAZA
MENARA MILSONLAND OLIVE HILL
OASIS SQUARE 100%
SYMPHONY SQUARE
MENARA ILHAM
IOI KENARI
PJ CITY
KELANA SQUARE
KL TRILLION
WISMA PAHLAWAN

TRANSPORTATION HUB

KTM SECTION 19 SHAH ALAM
PENANG INTERNATIONAL AIRPORT
MAJU LINQ

ENTERTAINMENT

DESARU COAST ADVENTURE
WATERPARK 100%

HOSPITALS

AVISENA HOSPITAL
PANTAI HOSPITAL CHERAS
PANTAI HOSPITAL KL
GLENEAGLES KUALA LUMPUR
GLENEAGLES PENANG
REGENCY SPECIALIST HOSPITAL

CONVENTION / EXHIBITION CENTRE

SETIA CITY CONVENTION CENTRE
CALVARY CONVENTION CENTRE
MALAYSIA INTERNATIONAL TRADE & EXHIBITION CENTRE 100%

GOVERNMENT BUILDINGS

MINISTRY OF INTERNATIONAL
TRADE AND INDUSTRY (MITI) 100%
MAJLIS BANDARAYA SHAH ALAM

RESIDENTIAL BUILDINGS

38 BIDARA 100%
D'SARA SENTRAL
D KIARA APARTMENT
SILKSKY RESIDENCE
VISTA ALAM

OPEN SITE / OTHERS

JALAN KANCIL 100%
LEBUH KENG KWEE 100%
KLCC LOT 310
TAMAN TASIK TAIPING 100%
THE WHITE BALLROOM 100%
THE SKYWORLD SALES GALLERY

100% - 100% Cashless System

