CP4
Parking access control package
Multi lane, big capacity

SOYAL
Access Control System

Date: 27 Mac 2022, Revision: V3

General Description

Management can define more extensive access permission who is allowed to come in at which barrier lane and at what time. Support **global anti-passback** function across all reader units. Support scheduled auto-reset of the anti-pass back. Support up to **15,000 cards**, **120 holidays** and **63 time zones**. Each user can be assigned an **expiry date** (for paid season parking or easy for the condominium management team to collect monthly maintenance fee). Support optional "Car park FULL" or "Car park EMPTY" indicator. The system can generate an alarm alert if the reader is damaged or being removed. All user profile is kept in the PC software for ease of maintenance.

During entry or exit, flash the access card in front of the reader. Upon identity verification, the controller will trigger the barrier gate to open. Reader rejects expired or invalid users.

MagEtegra ME-ACS software offers a clean GUI instead of crowded the screen with unnecessary functions. A security guard or operator with minimum IT knowledge will be able to operate the software easily. ME-ACS allows a user-friendly interface to add / edit/delete users. ME-ACS offers extensive reporting to help track for evidence in the event of a crime. ME-ACS also offers a CCTV picture capture function that takes a snapshot for every valid read as visual evidence for future audit.
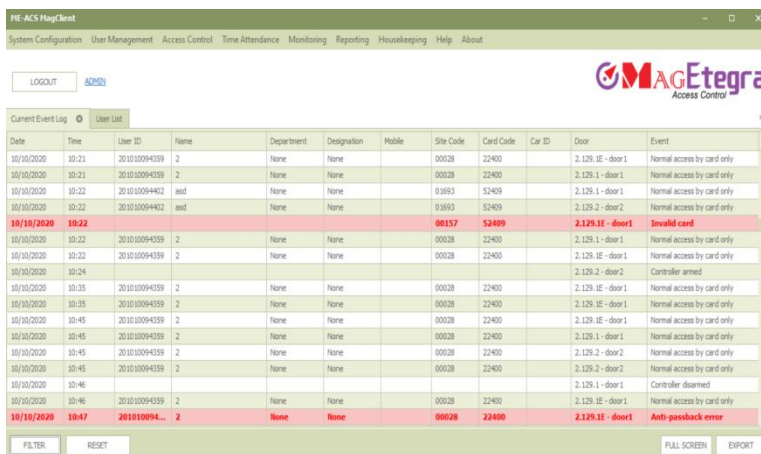
Clean interface easier to use.
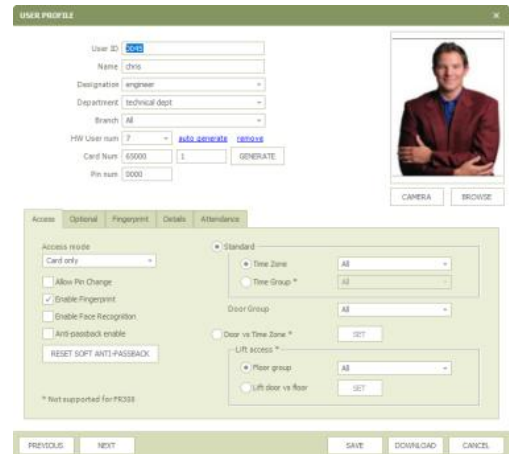
User profile
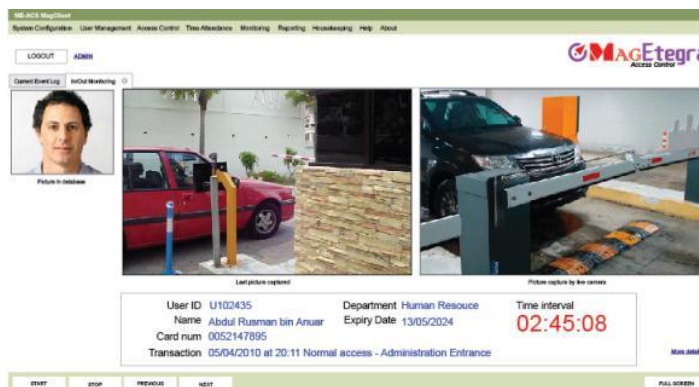
Capture entry/exit snapshot of every user

Ideal parking access solution for big commercial building, high-end condominium, enterprise factory where it requires total integration with complete door access and total building security system.

Ordering Information

Each CP4 system consists of 1 x Main system (CP4M) and multiple Reader units (CP4R1/R2/R4). Controller of CP4M is installed inside guardhouse is connected to PC for user profile and access control management via software. Optional upgrade for CCTV integration function is available. CP4 system support up to 16 x lanes.
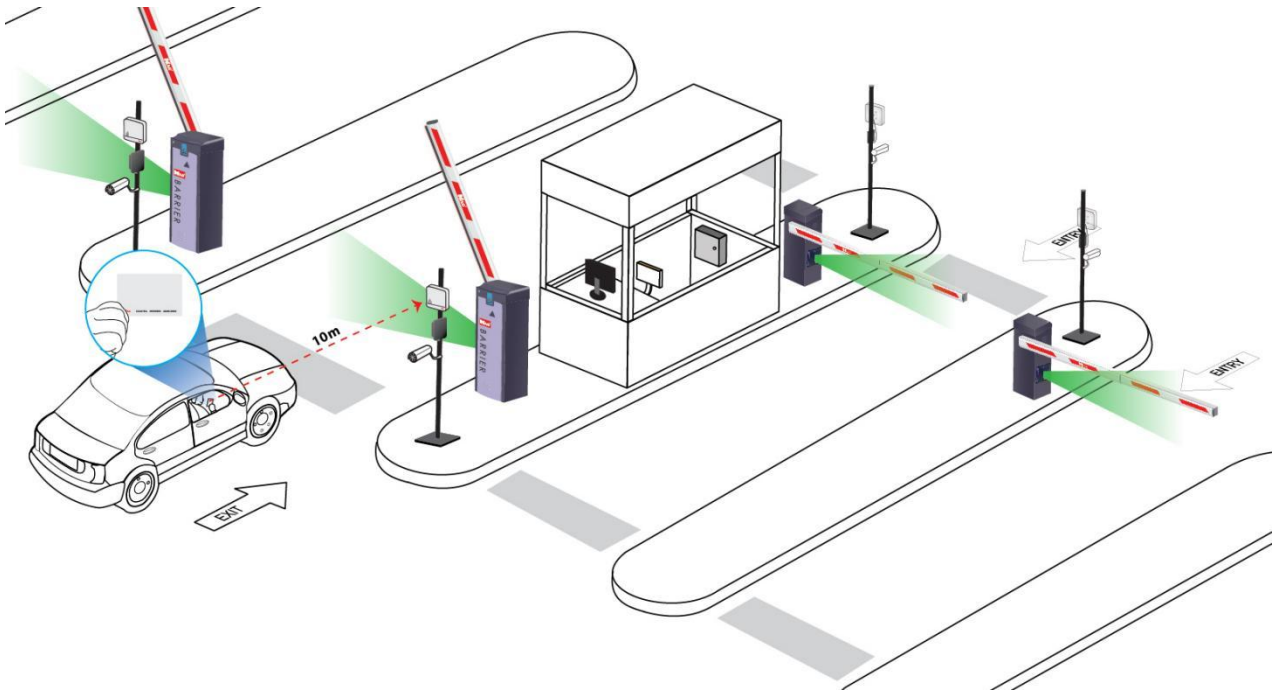
Main system unit - CP4M

Qty	Equipment
1 pcs	SOYAL AR716-E16 - Soyal 14 + 2 Reader Interface multi-door controller
1 pcs	NVS1230P power supply

Recommended surge protector:

Qty	Equipment
1 pcs	TP 4/12 to protect RS485 ch1 and ch2 at controller
1 pcs	PSP12 to protect 12V output at power supply
1 pcs	C-240AC to protect AC230 power at main MCB

Reader unit for short range – CP4R1

Affordable short-range reader (8 cm). The user winds down the car window to flash the card. This allows the guard to verify the person inside the car for any suspicious intention.

Qty	Equipment
1 pcs	SOYAL AR721H reader
1 pcs	Gooseneck
1 set	MAG barrier gate with loop detector
Any	Support CDS18 proximity cards

Recommended surge protector:

Qty	Equipment
1 pcs	PD-12FG to protect RS485 data and 12V at the reader.
1 pcs	MD-4CCU12V for UP, COM, DOWN and STOP input signal at each barrier gate board.
1 pcs	C-240AC to protect AC230 power input in barrier gate.

Reader unit for medium range – CP4R2

Best value mid-range reader (70 cm-120cm). Reading range depends on the solar film used. User no needs wind down the window; just flash the card from the comfort inside the car. It is more convenient and eliminates the problem of the hand getting wet during rain.
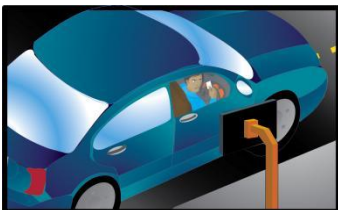
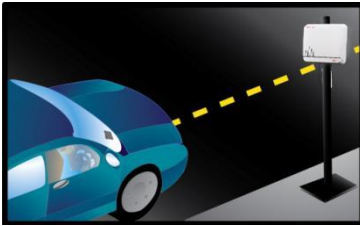| Qty	Equipment
1 pcs	MAG AR200U reader with 19.2V DC power adapter.
1 pcs	SOYAL AR721H data interface.
1 pcs	Gooseneck.
1 pcs	Weatherproof acrylic housing and bracket.
1 set	MAG barrier gate with loop detector.
Any	Supports CDS18L long-range card

Recommended surge protector:

Qty	Equipment
1 pcs	PD-12FG to protect RS485 data and 12V of AR721H interface.
1 pcs	PSP24 to protect 19.2V DC power input at AR200U.
1 pcs	MD-4CCU12V for UP, COM, DOWN and STOP input signal at each barrier gate board.
1 pcs	C-240AC to protect AC230 power input in barrier gate.

Reader unit for long range – CP4R4

AR300U Xclone is an ultra-high frequency (UHF) long-range reader that reads up to 10 meters (free air reading) to open the barrier gate ahead of time for smoother traffic. The final reading range depends on the type of solar film installed on the car, interference at the site and proper card reading angle.

AR300U Xclone has been approved by SIRIM to comply 919Mhzto 923Mhz frequency as required by Malaysia regulation. It is not affected by Malaysia's TnG RFID sticker.

Qty	Equipment
1 pcs	MAG AR300U Xclone reader
1 pcs	SOYAL AR721H data interface
1 pcs	Metal pole
1 pcs	Small PVC box for surge protector and wiring termination (not included and to be purchased separately).
1 set	1 x NVS1230P for every 2 x long range reader unit
1 set	MAG barrier gate with loop detector
Any	Support following cards: CDUS133L - UHF card CDUE133L - Hybrid UHF and EM CDUM133L - Hybrid UHF and Mifare CDUT133L - UHF sticker

Recommended surge protector:

Qty	Equipment
1 pcs	PD-12FG to protect RS485 data and 12V
1 pcs	MD-4CCU12V for UP, COM, DOWN and STOP input signal at each barrier gate board
1 pcs	C-240AC to protect AC230 power input in barrier gate.

CCTV integration

Qty	Equipment
1 nos	MagEtegra ME-ACS Pro Basic software to support up to 8 cameras.
1 nos	MAG 16 ch video server with alarm input

Surge protection

All readers, controllers and barrier gates installed outdoor are easily damaged by lightning surges therefore it is very important to install surge protection. The problem is more severe for the site at the hill area. The higher the site, the higher the risk of being exposed to lightning surges. With proper EARTH connection, LPS's SPD offers full protection.

C-240AC protect AC power in barrier gate.

PD12FG protect data and 12V for long range reader.

TP4/12 to protect 2 x data port.

PSP12 protect 12V DC.

PSP24 protect 24V

MD-4CCU12V Lower cost surge isolator for data and 12V.

MD-4CCU24V Lower cost surge isolator for data and 24V.