



# UHF RFID Parking Lot Access Control Device

UHF RFID Out-door Reader

Model: *WS-RFIDIP6*

UHF RFID Industrial Reader

Model: *WS-UHFRFIDANT4*

UHF RFID Handheld Reader

Model: *WS-LOOKID*



# UHF RFID Features

- ❖ WENSHING Electronics Co., Ltd was established in 1987, our major business line ranges from computer, electronics to communications including the design, manufacturer, production and sales in this related fields. We provide fourth UHF RFID long range readers, including Industrial reader, Handheld reader, Out-door reader and In-door reader operate in 840~960MHz and complies with industry standard.
- ❖ Industrial reader reading range able to reach 35 meters, 7 meters for Handheld reader and 30 meters for Out-door and In-door reader. Suitable in different passive tags and interfaces, complies with the industry standard.
- ❖ RFID readers can both write and read the tag, capable of handling above 200 tags, fast processing. Adapt to warehouse management requirement of supply chain. No need for extra human labor cost, it greatly improves tracking quantities and directions, step further for making the cost down and more efficient.
- ❖ Passive Tag features highly security, greater storage data capacity compared with traditional bar code and not easily been counterfeited. More than million times of re-write and read functions, it is able to withstand in harsh environment owing to a special-made material of TAG proofing longer product lifetime with additional features as non-directional limitation and cost-effective.

# Traditional Way & UHF RFID Management Comparative List

## ❖ Comparative list

### Weakness of traditional parking lot management:

- ❖ Remote control: Short lifetime, battery required.
- ❖ Detect card: have to roll down the window to detect, extra time cost.
- ❖ Staff: process control done by hand, extra salary expense cost.

### ❖ Advantages of UHF RFID parking lot management :

- \*Auto identification, function combines with customer management, car access and information look-up.
- \*Inside cars can quickly pass through the gate. High efficiency and security to control outside car go inside the lot.
- \*You can take photo in anytime for security and upload to cloud back-up.
- \*Manage through the internet, provide independent, non-stop information gain and monitor control.
- \*Passive Tag features battery without, long lifetime and re-writeable.

# UHF RFID Out-door Reader

## ❖ WSRFIDIP6 Out-door Reader:

Size: 215\*175\*75mm (W\*D\*H)

Frequency: 902~928MHz (Depends on following regulation)

Sensitive: -86dBm

RF Power: 1W (30dBm)

Reading range: 30m (MAX.)

Interface: Weigang26/34、RS485、RJ-45、Wi-Fi

Protocol: DC 12V 1A

Wi-Fi: EPC Class 1 Gen 2 ISO18000-6C IS18000-6A/B

Bluetooth: Bluetooth V2.1+EDR Class2

WiFi Encryption and Authentication : IEEE802.11b/g standard



# UHF RFID Industrial Reader

## ❖ WS-UHFRFIDANT4 Industrial Reader :

Size: 160\*160\*55mm (W\*D\*H)

Frequency: 902~928MHz (Depends on following regulation)

Sensitive: -90dBm

RF Power: 2W (33dBm)

Reading range: 35m (MAX.)

Interface: Weigang26/34 、 RS232、 RS485、 Wi-Fi 、 Ethernet

Adaptor : DC 12V 1A

Wi-Fi: EPC Class 1 Gen 2 ISO18000-6C IS18000-6A/B

Wi-Fi Encryption and Authentication IEEE802.11b/g standard

# UHF RFID Handheld Reader

## ❖ WS-LOOKID Handheld Reader:

Size: 135\*108mm (W\*D)

Frequency: 902~928MHz (Depends on following regulation)

Sensitive: -86dBm

RF Power: 1W (30dBm)

Reading range: 7m (MAX.)

Interface: Wi-Fi、Bluetooth (Serial Port Profile)

Memory: Micro SD 32G(MAX.)

Adaptor: DC 5V 1A

Protocol: EPC Class 1 Gen 2 ISO18000-6C IS18000-6A/B

Wi-Fi: IEEE802.11b/g standard

Bluetooth: Bluetooth V2.1+EDR Class2

Wi-Fi Encryption and Authentication : WEP64/WEP128/ TKIP/CCMP(AES)

OPEN/WPA-PSK/WPA2-PSK

# UHF RFID Car Access Control Management Content

1

**Entrance Control**

2

**Car Identification**

3

**Security monitoring**

4

**Customer Management**

5

**Exit Control**

# UHF RFID Car Access Control



Handheld Reader



Out-door Reader

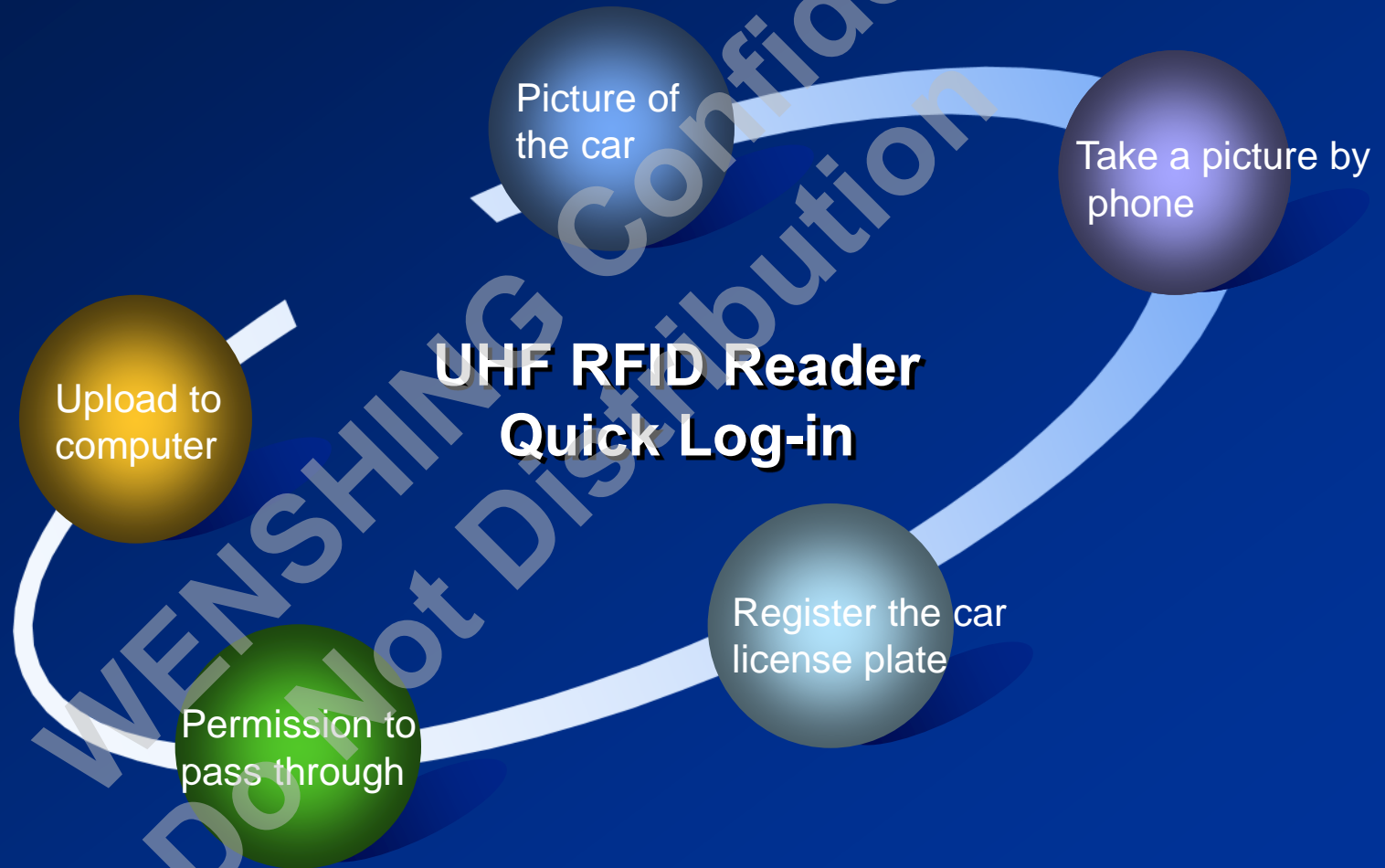


Industrial Reader

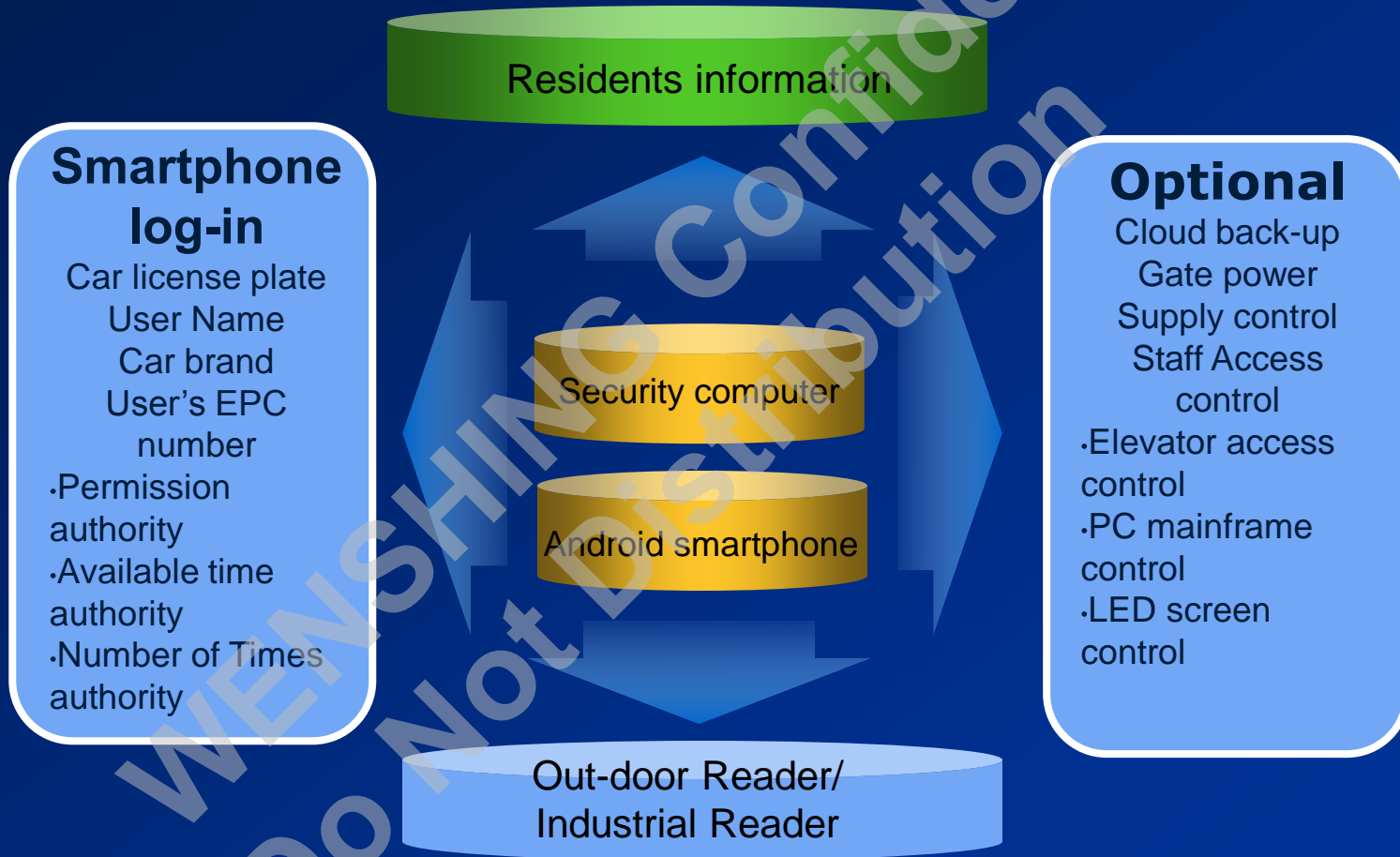




# UHF RFID Implement Procedure



# Database Management



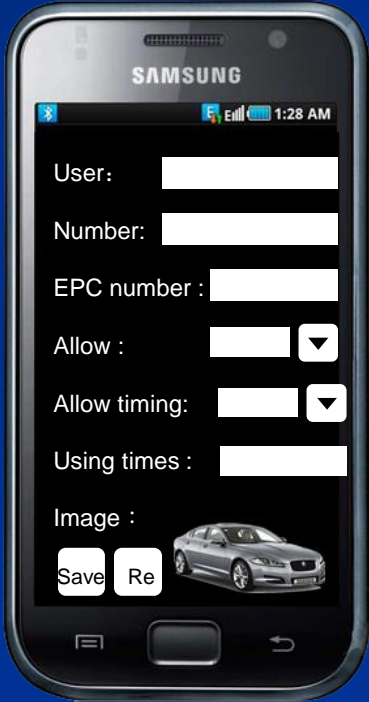
# Procedure Detail



Car drive-in



Take a picture by smartphone



Fill out the blank in system after taking picture.

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# Procedure Detail



Output mode:

Wiegand 26/34 code, RS485 or RJ45 (Optional)  
Wireless : Wi-Fi, GPRS (optional)



Out-door Reader



Industrial Reader

Smartphone application

Fill out the blank information, and click "Save", the application will automatically upload the information to the system mainframe and save.

# Procedure Detail



Handheld Reader



Tag



Tag



Type the detail information in the system and write into the tag via RFID Handheld Reader then stick the tag on the glasses of car.



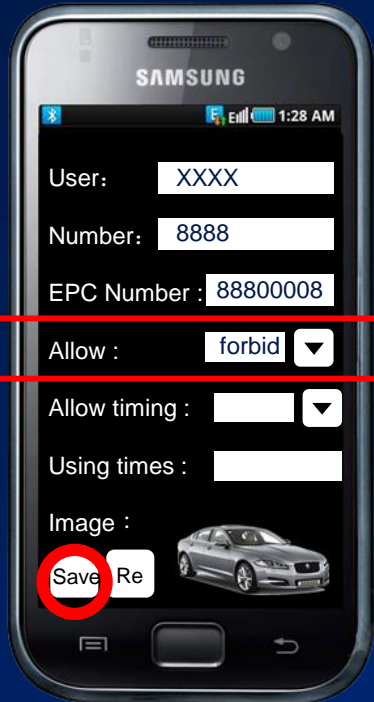
# Procedure Detail



When the car pass through, the reader will read The Tag on car and identify the information by System, if the identification correct, the gate will rise the bar.



# Procedure Detail



Output mode:

Wiegand 26/34 code, RS485 or RJ45 (optional)  
Wireless : Wi-Fi, GPRS (optional)



If you want to prohibit the car to pass through, Click the “Allow” section choose “forbid” and then click “Save” to update, the system will automatically save the settings.



Out-door Reader



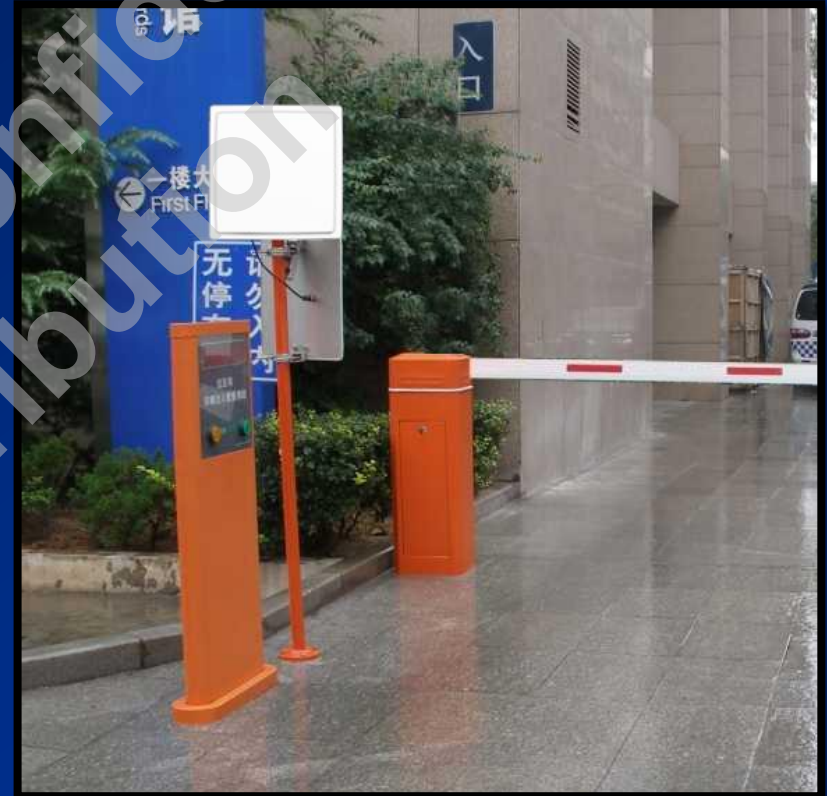
Industrial Reader

Smartphone application

# Procedure detail



When the car pass through, the reader will read the tag on car and identify the information by system, if the identification incorrect, the gate will hold the bar.



# Accessory





# Directional Antenna 8dBi

Technical Specifications	
Frequency (MHz)	902~928
Bandwidth (MHz)	26
Voltage Standing Wave Ratio (VSWR)	$\leq 1.25$
Antenna Gain (dBi)	8
Antenna Length (mm)	225*225*30
Polarization	Circularly polarized
Maximum Power (W)	100
Input Impedance ( $\Omega$ )	50
Horizontal Lobe width ( $^{\circ}$ )	60
Vertical Lobe width ( $^{\circ}$ )	60
Front to Back ratio (dB)	25
Half-Power Angle E-Plane	68
Half-Power Angle H-Plane	68
Connector	SMA
Antenna Cover Material	ABS



# Directional Antenna 9dBi

Technical Specifications	
Frequency (MHz)	902~928
Bandwidth (MHz)	26
Voltage Standing Wave Ratio (VSWR)	$\leq 1.25$
Antenna Gain (dBi)	9
Antenna Length (mm)	280*280*40
Polarization	Circularly polarized
Maximum Power (W)	100
Impedance ( $\Omega$ )	50
Vertical Lobe width ( $^{\circ}$ )	60
Horizontal Lobe width ( $^{\circ}$ )	60
Front to Back ratio (dB)	20
Connector	SMA
Antenna Cover Material	ABS

# Directional Antenna 12dBi

Technical Specifications	
Frequency (MHz)	925
Bandwidth (MHz)	26
Voltage Standing Wave Ratio (VSWR)	$\leq 1.25$
Antenna Gain (dBi)	12
Antenna Length (mm)	445*445*40
Polarization	Circularly polarized
Maximum Power (W)	100
Impedance ( $\Omega$ )	50
Horizontal Lobe width ( $^{\circ}$ )	40
Vertical Lobe width ( $^{\circ}$ )	38
Front to Back ratio (dB)	25
Half-Power Angle E-Plane	38
Half-Power Angle H-Plane	40
Connector	SMA
Antenna Cover Material	ABS



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