



Dual tech  
IR 433

**Hands free parking access has never been so affordable !**

## AR500U

AR500U is a highly affordable long range reader that can penetrate most vehicle solar film to truly offer maximum distance hands free parking access.

- ✓ Enjoy the convenient of handsfree - no need fully stop to flash card.
- ✓ No more getting hand wet during rainy days or expose to robbery threat when winding down windows to flash card.
- ✓ Reduce congestion of long car queue during peak hours
- ✓ Add premium prestige reputation to your residential or commercial building.



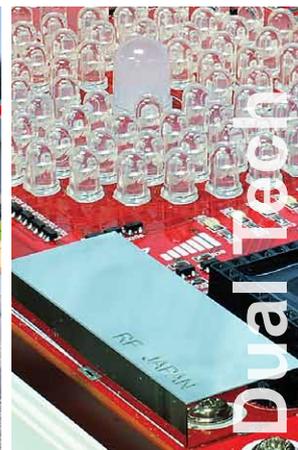
### CCD200

Transponder. Insert proximity card to boost up for long range reading. Support 125Khz or MIFARE. Stronger signal for maximum penetration



### CCD100

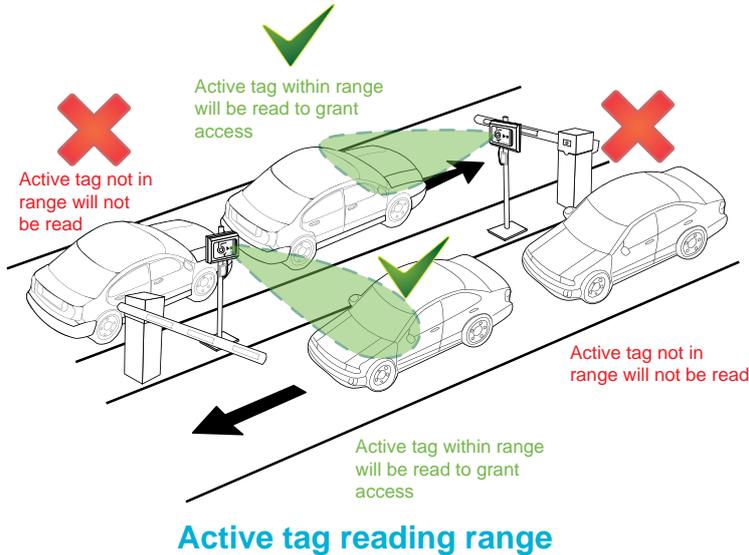
Compact mini tag. Lower signal strength for optimum penetration.



# Features

## Absolute directional

Infrared rays is emitted in front of AR500U at 60° angle to define its reading zone. IR technology offer more accurate area coverage. Only tags within the reading zone will be read. This totally eliminate the chances of reading unwanted tags that are behind reader, adjacent car lane, trailing cars in queue which causes anti-passback error in access controller.



## Multi lane automatic differentiation

Two AR500U can be installed side by side for multiple entry and exit lane reading. AR500U can automatically differentiate tag to ensure correct reading between adjacent multi lane application.

## Extended battery life on tag / transponder

Tag/transponder remains in standby mode (sleeping) all the time with minima power consumption. It will only be activated when entering AR500U's IR reading zone. This greatly extend battery life time. Battery can be purchased from any electronic store and changed easily. Tag will resume sleeping when exit IR zone CCD200 will totally turn off if card is removed to further save battery.

## Card number automatic validation

AR500U read tags' number continuously. Same card number will not be send out again and again to avoid double reading. Double reading causes anti-passback error on access controller. AR500U will wait 7 sec before the same card number is sent out again.

## Standard Wiegand interface output

AR500U send out tag/card number via standard wiegand (WG26, WG34) interface output that is supported by most access controller in the world.

# Specification

Receive Frequency	RF 433Mhz
Sending Frequency	IR 38Khz
Read Angle	60°
Output Format	Wiegand26, Wiegand34
Data Rate	9600 bps
Power	DC12V, 1A
Read Range	1.8 to 7 meters
Operating Humidity	10% to 90% relative humidity
Operating Temperature	-20°C to 70°C
Weight / Dimension	4Kg / 250 x 260 x 65 mm (WxHxD)

### Ordering info :

- AR500U** - Long range reader
- CCD100** - Active mini tag with sucker bracket
- CCD200E** - Active transponder for 125khz proximity card
- CCD200M** - Active transponder for 13.56 Mhz Mifare proximity card

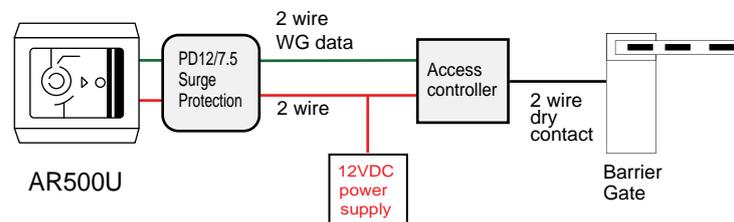


*Final reading range achieved depend on type of solar film and potential interference at site. AR500U is tested with most solar film in the market but it is not guaranteed to penetrate ALL type of solar film.*

# Accessories



# Wiring Diagram



# Why choose AR500U ?

Most long range readers in the market have 2 main problems. They cannot read through thick solar film and their reading angle in too wide around the reader. So premium cars installed with best quality solar films are not able to get through. When reader is adjusted to be higher power, it creates another problem of reading all nearby car including the car at side, behind and opposite lane. This causes a lot of inconvenient and confusion that lead to security loop hole at entrance.

AR500U's dual technology solves both problems. Infrared is used to limit reading to a controlled angle. 433Mhz is used to effectively penetrate most thick solar film once the car fall within the intended read zone. Car at the back or adjacent will not be falsely read.

Unlike other competitor, CCD200 / CCD100 will not transmit anything if car is outside of reading zone to ensure that your body is not constantly exposed to RF wave while you are driving.

AR500U is the perfect long range reader that allows you to enter your premise hands free - without using your hand to wave the card and without winding down window.

This is the way you should enjoy the automation – **affordable, convenience and safe.**