



# OBJECT DETECTION MADE EASY FOR VEHICLE ACCESS CONTROL **RADAR DETECTORS**

In the vehicle access control system, what choices do we have for object detection?

As an important part of vehicle access system, object detection is commonly required to detect vehicles and pedestrians, and then link to camera for license plate recognition or barrier gate control.

# TRADITIONAL SOLUTION

## LOOP DETECTOR & INFRARED DETECTOR

In a traditional solution, loop detectors and Infrared detectors are commonly used to detect vehicles and pedestrians.



## LOOP DETECTORS

- High cost during installation to cut and recover the pavement
- High cost of maintenance because loops need to be replaced about every two years
- Many scenes are not suitable to install loops, where heavy-current cables, optical cables, water and gas pipelines are beneath the pavement



## INFRARED DETECTORS

Infrared detector must be installed in pairs at both sides of the entrance. It has poor adaptability and is susceptible to interference, such as dash and falling leaves.



- Difficult to install
- High maintenance cost
- Damage to the pavement
- Poor adaptability
- High false alarm rate

# RADAR DETECTOR SOLUTION

## EASY OBJECT DETECTION

What new products have been applied?



## IMPRESSIVE PERFORMANCE

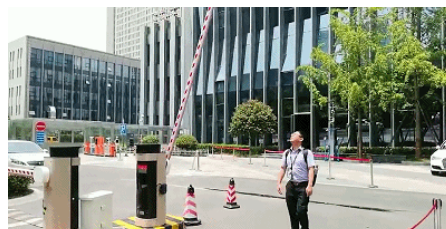
- Trigger radar can detect vehicles accurately
- Anti-fall radar can detect vehicles, non-motorized vehicle and pedestrians, and protect them from being hit by the barrier gate



Vehicle detection



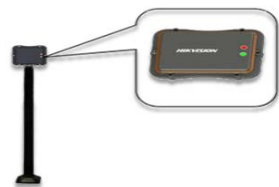
Non-motorized vehicle detection



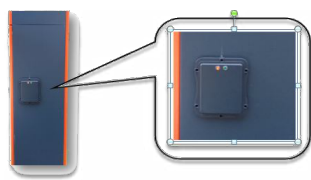
Pedestrian detection

## EASY INSTALLATION & HIGH RELIABILITY

- Side-mounted, highly adaptable and reliable with scene self-learning
- Based on microwave high-precision positioning technology with lower false alarm rate



Trigger radar for vehicle detection



Anti-fall radar for vehicles, non-motorized vehicles and pedestrian detection

### Available Models (Sold in Asia BU & India BU)

Name	Model	Description
Trigger radar	DS-TMG033 (Trigger Radar)	2.4 GHz MMIC Relay output Vehicle detection
Anti-fall radar	DS-TMG033 (Anti-fall radar)	2.4 GHz MMIC Relay output Vehicle and pedestrian detection



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## HIKVISION®

### Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahikvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 (216)521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 (10) 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33(0)1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-(0)31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com

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