



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.



Pain Points

- 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?



Anti-fall radar



Trigger radar

IMPRESSIVE PERFORMANCE

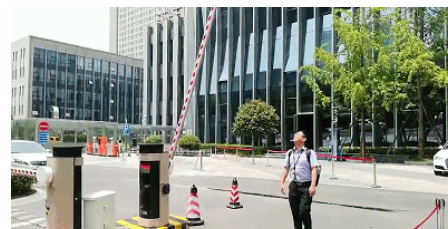
- Trigger radar can detect vehicles accurately
- Anti-fall radar can detect vehicles, non-motorized vehicle and pedestrians, and protect them from being hit by the barrier gate



Vehicle detection



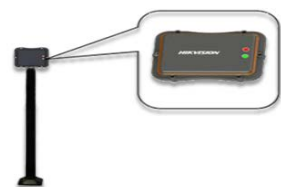
Non-motorized vehicle detection



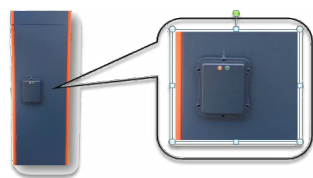
Pedestrian detection

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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