

# UMDR-TVK

## Universal Microwave Doppler Radar Series (Traffic) Vehicle Velocity Detector

Certified by  
NCC and ISO  
regulations.

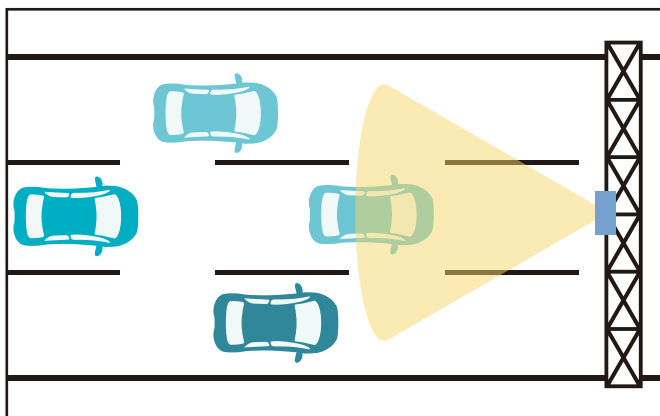
Designed  
and produced  
in Taiwan.

Compatible  
with 4G/NB-IoT

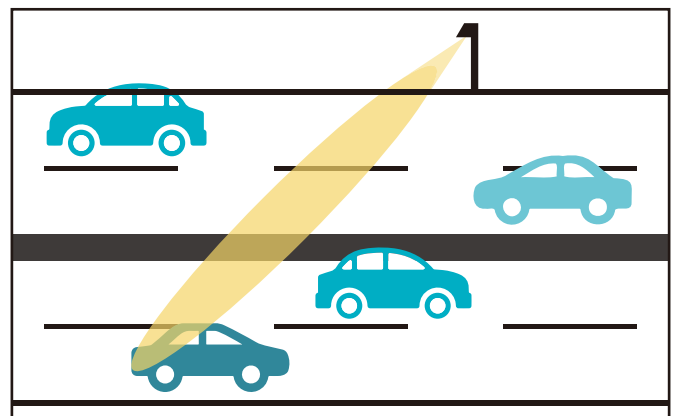
Adapt to  
different  
climates and  
environments.



The UMDR-TVK Microwave Speed Measuring Radar is a specialized radar product for accurate speed measurement, using continuous wave radar detection technology. It can precisely measure the speed of moving objects with a speed measurement range of 5km/h to 250km/h, suitable for different environments such as highways, expressways, urban roads, and bridge roads. This product has passed the national speed measurement certification and can be combined with image capture devices according to needs to be used in road sections where violations are likely to occur, achieving the purpose of speed measurement and capture, warning and reporting of violations. It can also be combined with sound and light screens to display speed prompts for pedestrians and maintain driving safety.

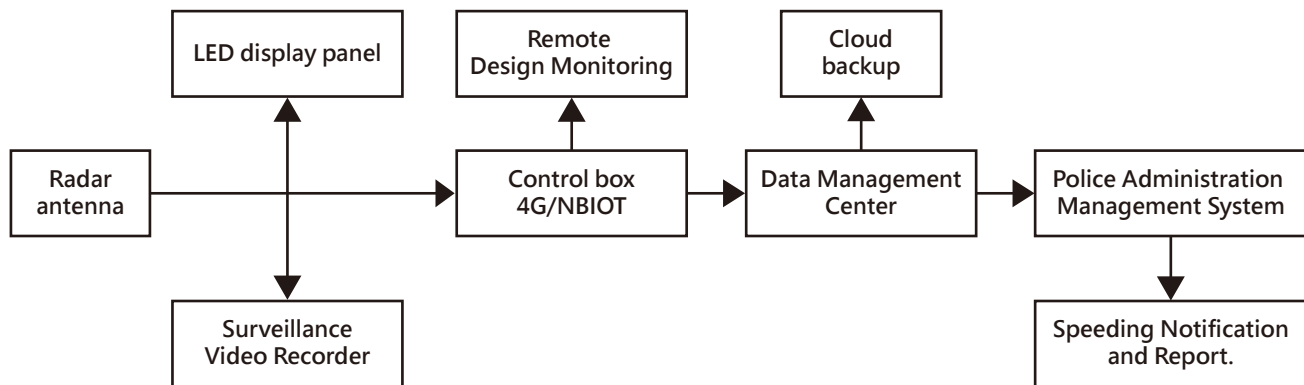


Schematic diagram



Schematic diagram

## Radar System Operation Process :



## Application of product performance (partial cooperation cases):



Taipei lease case



Taoyuan Jingguo Road



Huadong case

## Universal Microwave Doppler Radar Series (Traffic)

Product name	UMDR-TVK
Application scope	Highway, national road, general road speed detection
Antenna beam width	5.5° x 11° (Customization)
Installation direction	Forward/diagonal
Center frequency	24.125GHz
Scanning bandwidth	240MHz
Measurement distance range	≥60m
Measurement speed range	5~250km/h
Vehicle speed detection accuracy	±1.0km/h
Detection time	25ms
Dimensions	213 x 253 x 124mm
Waterproof specification	IP-66
Environmental adaptability	Operating temperature-35°C~+60°C ; 0~95%RH
Regulatory certification	NCC ; ISO-9001

### Note:

The above specifications are based on the following defined conditions: the detection accuracy of each lane should be at least 85%.

- 1.The speed exceeding 30 km/hr for each lane.
- 2.The number of vehicles driving on each lane is over 50.
- 3.The flow rate of large vehicles on each lane is less than 15%.