

## Speed-measuring Radar DS-TD10N-1(B)

Narrow beam Speed Measurement Radar sensor measures the speed and distance of an approaching or receding vehicle in a single lane. The radar sensor provides a trigger signal for video surveilling equipment in order to capture the target vehicle's number plate. The narrow beam antenna meets the international requirements for speed enforcement radar systems. This module enables an easy integration as there are no settings required. It can be widely applied to highway, tunnel, three-dimensional crossing bridges and other traffic environments.



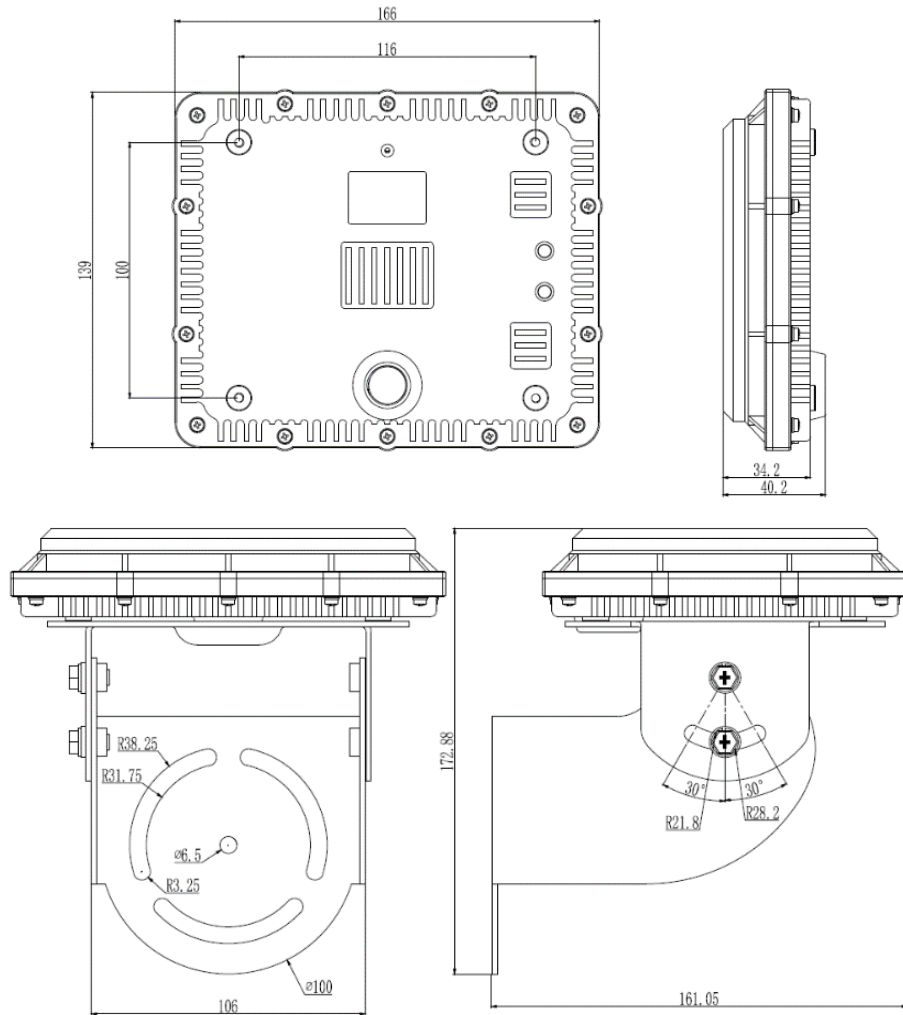
### Main features

- High performance radar operates in 24GHz ISM Band;
- Special micro strip antenna design effectively avoids interference from adjacent channel target;
- Accurate speed and distance measurement for multiple targets;
- High dynamic speed measurement range with very high capture rate;
- Add Wi-Fi to set parameters simply and fast;
- Advanced DSP technology, highly accurate speed measurement & very low false alarm rate;
- Simple installation and convenient in maintenance;
- Sensor performance unaffected by harsh weather conditions;

## Technical parameters

- Central Frequency: 24.15GHz
- Vehicle capture rate :  $\geq 99\%$
- Lane: Single Lane (2.5m to 5m adjustable)
- Speed accuracy :  $\pm 2$  km/h
- Mounting height: 5m to 10m
- Trigger consistency :  $\pm 0.5$ m
- Modulation Waveform: FMCW+ Monopulse + Doppler
- Central Frequency Deviation:  $\leq \pm 45$ MHZ
- Beam Width:  $45^\circ \times 19^\circ$
- Tracking distance: single lane 15 to 45m
- Position distance: 18m to 35m
- Velocity range: 5km/h $\sim$ 250km/h
- Degree of exactitude: (-4 $\sim$ 0) km/h
- Triggering accuracy:  $\leq \pm 1$ m
- Communication Interface: RS485(RS232 optional)/Wi-Fi
- Temp range:  $-40^\circ\text{C} \sim +85^\circ\text{C}$
- Humidity range: 5%RH $\sim$ 95%RH
- Power Supply: 9 V $\sim$ 12V DC
- Ingress protection : IP66
- Consumption:  $\leq 3.5$  W

**Overall dimensions**



Unit: mm



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