

# HUQYS

## DTAM D49-V

### 500m Long-Range Detection Radar



**MIMO** radar front-end technology

**FMCW** waveform design

Vehicle **trajectory tracking** algorithm

Radar-Video **Fusion Detection** Algorithm



**Wide area multi-target detection**

8 lanes horizontally,  
500 meters vertically,  
512 objects tracking detection



**Holographic multi-dimensional perception**

Accurately locate vehicle trajectory information,  
Multi-section + regional information perception



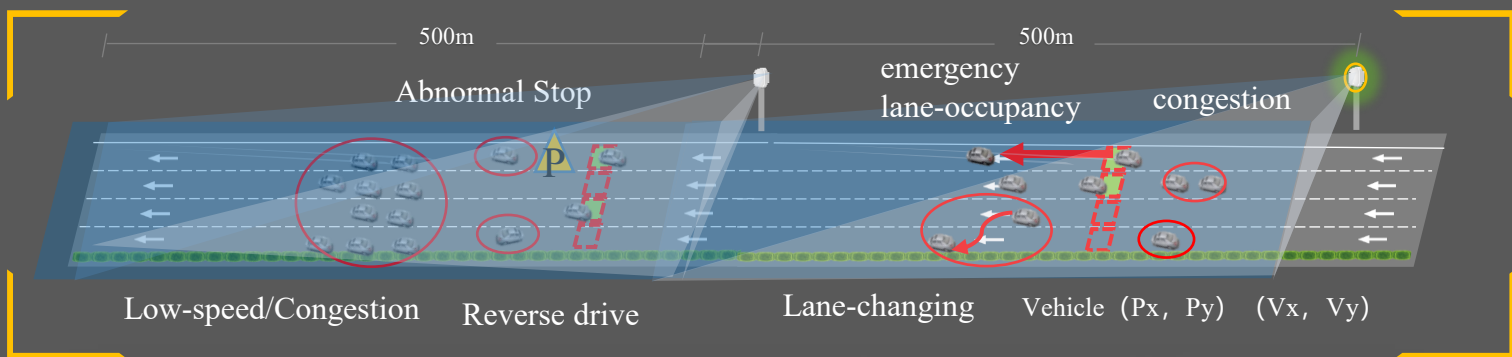
**Multi-sensor fusion Multi-target radar**

tracking, video forensics,  
Coordinate matching and data fusion



**High-precision, all-weather suitability**

High-precision all-weather data collection,  
Not affected by weather and light





## Technical Specification

### Basic Parameters

Detection range	30m ~ 500m
Range accuracy	0.4m
Coverage	8 lanes
Simultaneous detection	Up to 512 objects
Refresh time	50ms
Interval of velocity	-200km/h ~ 200km/h
Speed accuracy	0.1m/s
Speed resolution	$\leq \pm 0.25\text{m/s}$
Operating frequency	80GHz
Classification	Large vehicles, small vehicles, non-motor vehicles, and pedestrians
Statistical data	traffic volume, average speed, time occupancy rate, headway, inter-vehicle distance, 85th percentile speed, etc.
Incident data	abnormal stop, high-speed, illegal lane-changing, reverse drive, congestion, no-entry incident, emergency lane-occupancy

### Environmental Parameters

Working temperature	-40°C~+70°C	Humidity	0~95%
Installation height	6 ~ 12m	IP rating	IP67

### Video

Resolution, Frame Rate	3840 x 2160 px, up to 25 fps	Video Codec	H.265, H.264, MJPEG
Video FOV	$\pm 13^\circ$	Lens	12mm fixed focus lens
Sensor	1/2.5 inch CMOS		

### General

Power supply	24V DC	Port	RJ45
Power consumption	$\leq 12\text{ W}$	MTBF	100000h
Weight and dimension	1600g, 255*229*151mm	Material	PC

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