



**ST-RS900W**

SensorTec Monopulse,  
4D Radar

## Description:

SensorTec Multilane 4D Radar accurately measures the speed of several vehicles in multiple lanes. The device works together with the SensorTec cameras and the NVR that runs the VCA application. The radar provides telegrams. Each of them stores the information up to seven vehicles at once that have different IDs. These telegrams are stored in each related image header. The IDs in the telegrams are matched with the VCA recognized objects in the image.

Monopulse, Fast FMCW, multilane 4D radar with sensor fused 20 MP image sensor.

## Technical Features:

- Monopulse, Fast FMCW
- multilane 4D Radar
- Sensor fused with 20 MP image sensor
- Synchronized operation with Logipix ONE cameras
- IP67

## Technical Specification

Part number	ST-RS900W
Description	SensorTec monopulse, Fast FMCW, multilane 4D radar
Application	SensorTec Traffic System
Transmit frequency	76-77 GHz 26
Maximum transmit power	dBm (EIRP)
FCC and ETSI	300 / 440 compliant
Antenna beam horizontal	70° (+/- 35°) (typical)
Antenna beam vertical	11° (+/- 5.5°) (typical)
Readout period	50 ms
Modulation	FMCW
Length accuracy	+/- 0.25 m
Speed accuracy	3 km/h up to 100 km/h; 3% above 100 km/h
Velocity range	- 41 to + 41 m/s
Minimum absolute radial speed (Dop-pler radial motion detection limit)	0.1 m/s
Sensor fusion	Yes

## MECHANICAL SPECIFICATION

Mounting	4x M4 holes at the back side
	82 x 82 mm in square
Dimension (lwh)	105 x 105 x 42 mm

## ELECTRICAL AND ENVIRONMENTAL SPECIFICATION

Supply voltage	5 V powered from Logipix camera USB
Power Consumption	2 W
Interface	5 V USB 2.0
Operating temperature	- 20 °C to + 65 °C
Storage temperature	- 30 °C to + 100 °C
Degree of protection	- IP67

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT



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