



RAM111

High-precision laser detection for
over height vehicle prevention and
infrastructure protection



- RAM111 is the highest-level sensor for over height vehicle detection, based on a laser scanner and a double-beam laser.
- RAM111 emits light, which is reflected to be recognized by the receiver, filtering out environmental light noise.
- The laser scanner is very accurate in measuring the height and detecting the presence of a vehicle.
- The double-beam laser operates at a high frequency and has a narrow angle, enabling it to detect small objects even from a distance of 12 meters.
- The internal CPU processes laser data in real time, enhancing accuracy and minimizing false alarms.
- Road side pole installation, no need for a separate transmitter and receiver.
- Cover up to 2 lanes.
- Possibility of integration with VMS (Variable Message Signs) to alert the driver in case of an over height vehicle.



OVER HEIGHT

RAM111



Laser Scanner

2 Single Beam Laser

Control Unit (Optional)

	RAM111
Technical Features	
Technology	Laser scanner + 2 single beam lasers
Detection Range	Up to 12m (39ft)
Frequency	Laser scanner: 60 Hz Single beam: 1 KHz
Minimum object width	50 – 100mm
Maximum Object Speed	150 km/h
Alarm	Relay, D/O, software
Communication Line	Ethernet
Size	Laser scanner 296 x 178 x 209 mm Single beam 810 x 115 x 345 mm
Weight	Laser scanner 4,5 Kg Single beam laser 3kg bracket 2Kg
Case	Laser scanner: Reinforced polycarbonate Single beam: Stainless steel
IP Protection	IP65
Power Supply	12-24 Vdc
Power Consumption	Laser scanner 6W (average) Single beam 3W (average)
Temperature range	-20°C, +50°C
Laser Class	Class I
LTE	Optional

Part Numbers

RAM111	
RAM111	2D Laser + dual beam laser