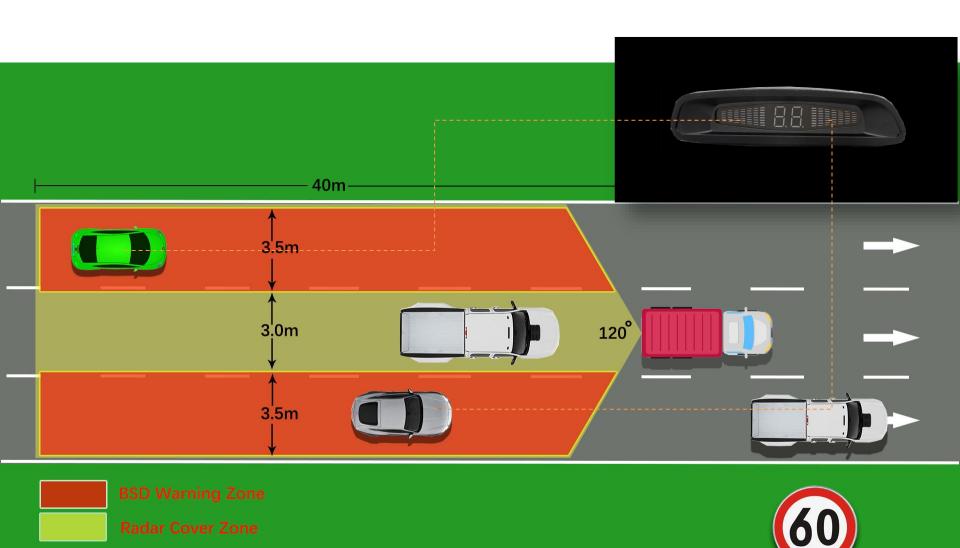




Ready to Release: April 2024

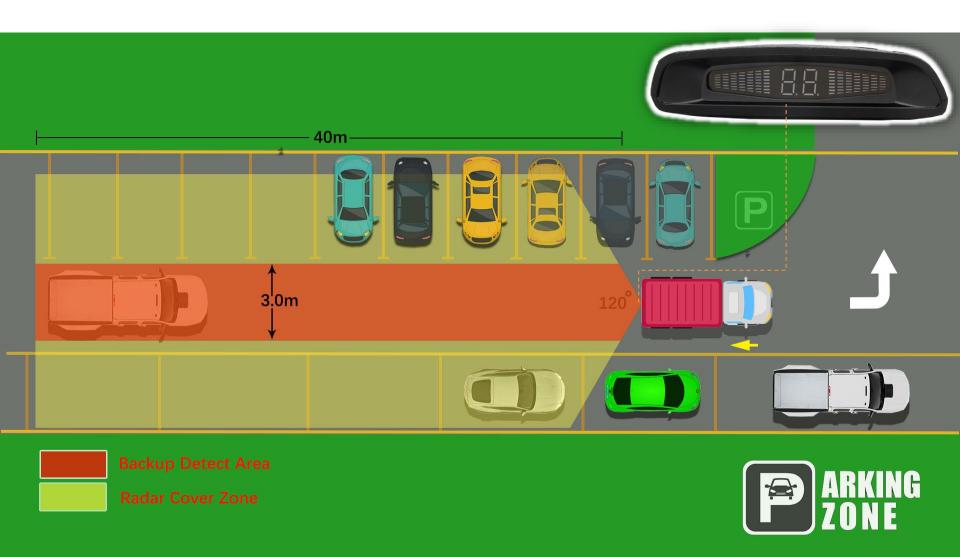
Feature 1: BSD Warning System





Feature2: Long Rang Backup Assistant





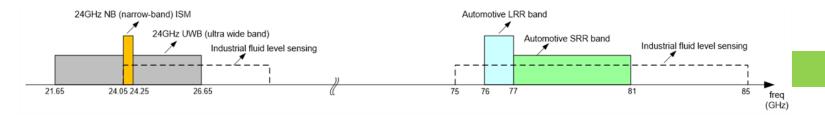


INTRODUCE

With automotive 77-79GHz mmWave Sensors, this system is designed to large vehicle BSD and backup assistant purpose that detect objects in zones obscured from the operator's view. The millimeter wave radar sensor detect stationary as well as moving objects in a desired coverage area as long as the vehicle is backup moving. The system is ideal for on-road and off-highway commercial vehicles, forklifts and other industrial vehicles.

Features:

- -New 77-79GHz millimeter wave radar technology.
- -Sensitive detect people in the detect zone.
- -Detect range length at 0.4-40m, width at 2-10m, detect zone adjustable by software/tools.
- -Prevent vehicle damage due to backing accidents.
- -In-Cab LED Display Unit.
- -Audible tones that increase in rate as objects become closer.
- -Rugged Design, shockproof and waterproof housing.
- -Millimeter wave radar technology itself is very weather resistant.
- -Fast of detection.



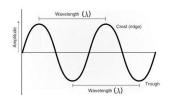


Sensor Specification

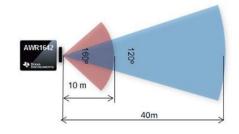
Model No.: A60-1

Object Detect Radar		
Туре	Millimeter wave radar	
Carrier wave frequency	77-79G	
Band width	4GHz	
Refresh rate	10-50Hz	
Horizontal detect angle	120 degree	
Vertical detect angle	20 degree	
Maximum detect range	40m (car)/10m (people)	
Detect range accuracy	0.1m	
Velocity measurement	0.1m/s	
Angle resolution	less than 10 degree	
Interface	CAN / FD-CAN	
Working voltage	9-36VDC	
Dimension	67mmx62mmx24mm	











Vision and Radar Signal Processor Box

Model No.: Box-A1

LED

SENSOR

POWER









- 1. Red:5V Out
- 2. Black: GND
- 3. White: RS485-
- 4. Yellow: RS485+
- 1. Red:12-24V Out
- 2. Black: GND
- 3. White: CAN_L
- 4. Yellow: CAN H

- L. Red:12-24V In
- 2. Black: GND
- 3. Green: Backup Trigger
- 4. Yellow: Turn Right Lamp Trigger
- 5. Orange: Turn Left Lamp Trigger



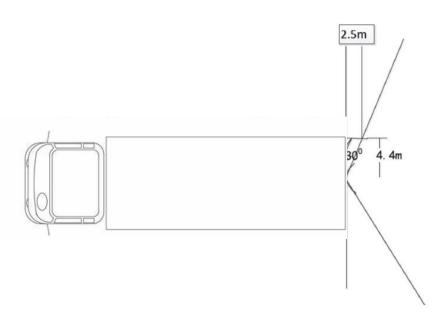


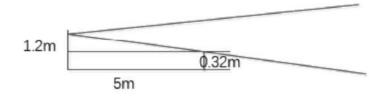


9-36VDC



Radar Detect Zone





Horizontal detect angle

120 degree

Vertical detect angle 20 degree



Zone	Size	Buzzer
Detect Zone 5	Green	1.5 time sound/s
Detect Zone 4	2m	2 time sound/s
Detect Zone 3	1.5m	2.5 time sound/s
Detect Zone 2	1m	3 time sound/s
Detect Zone 1	0.5m	continuously sound

Detect Zone: Length Range=0.4m to 40m Width Range=2m to 10m

