

INTEGRATED PROXIMITY WARNING & CAMERA SYSTEM



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About Us

SR Vision Enterprises delivers DGMS-compliant, technology-driven safety solutions for mining, construction, ports, and warehouses—enhancing safety, efficiency, and operational excellence even in extreme environments.



Our Vision

To deliver maximum customer value through reliable and innovative safety solutions.

Our Mission

To lead in futuristic safety products that set new benchmarks in protection and performance.



About Product

Integrated Proximity Warning & Camera System with Recording

Heavy Earth Moving Machinery (HEMM) in mining, quarrying, ports, and construction sites operate with large blind zones, especially in dusty or low-visibility conditions.

SR Vision Enterprises provides an advanced safety solution using **77 GHz microwave radar** integrated with cameras and recording. The system detects obstacles in blind zones and alerts drivers through **real-time visual and audible warnings**, helping prevent accidents and protect people and assets.

Reliable safety for demanding environments.



Adjustable Detection Zone

Specification's

01 – Microwave Radar Sensor (77Ghz)

ITEM	PARAMETER
Rated working voltage (V)	12V or 24V
Operating Voltage range (V)	9-36V
Working current	<200mA
Operating temperature range (°C)	-40~80
Storage temperature range (°C)	-40~85
Working frequency (GHz)	76-77
Transmit power (dBm)	23
Modulation Mode	FMCW
Antenna form	2TX , 4RX
Traceable target number _{MAX}	31
Horizontal angle (°)	110-150@-3dB
Vertical angle (°)	30@-3dB
Angle accuracy (°)	± 0.5@40°

ITEM	PARAMETER
Angular resolution (°)	15
Speed Range (km/h)	-36~+36
Speed Accuracy (km/h)	0.5
Detectability (m)	10
Distance Accuracy (m)	± 0.02
Distance resolution (m)	0.04
Waterproof grade	IP69K



02 – Overlay Video Box

ITEM	PARAMETER
Rated working voltage (V)	12V or 24V
Operating Voltage range (V)	9-36V
Working current	<700mA@12V
Operating temperature range (°C)	-40~80
Storage temperature range (°C)	-40~85



03 – 1080p Camera

ITEM	PARAMETER
Image Device	1/3" colour CMOS
Resolution	1080P
Effective Pixels	1920(H) * 1080(V)
TV System	PAL/NTSC
Minimum Illumination	0.1Lux (day),0 Lux (with IR)
Electronic Shutter	Auto
View angle	120°
Audio	Optional
Sync. System	Internal
AGC / White Balance	Auto
S/N Ratio	Better than 46dB
Backlight Compensation	Auto

ITEM	PARAMETER
Video output	1.0Vp-p, 750Ohm
Mirror/Normal	Optional
Power Supply	12/24V
operating temperature (°C)	-20 ~ 70, RH 95% MAX
Storage temperature (°C)	-30 ~ 80, RH 95% MAX

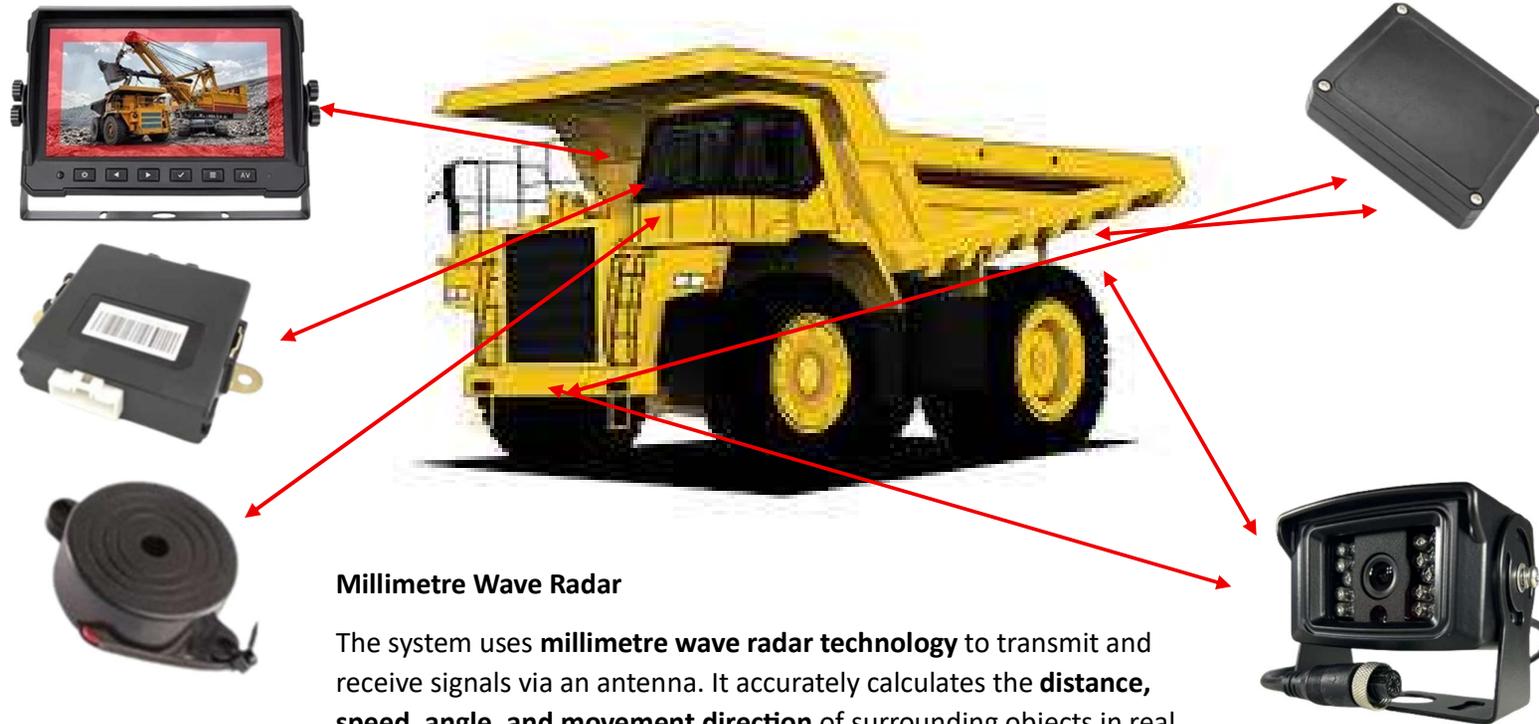


04 – 7” AHD Monitor

ITEM	PARAMETER
LCD Size	7inch LED Panel
Video System	PAL/NTSC Automatic detection
Resolution	1023*RGB*600
Brightness	500 cd/m ²
View angle	L/R:70, UP:50, DOWN:70°
Video	2/3 video inputs, camera connector:4 Pin aviation
Image	16:9 wide screen
OSD language	English, Spanish, Portuguese, German, French, Italian, etc.
Image reversion	UP/Down and Left/Right
Number of triggers	Up to 2CH
Speaker	Built-In
Power Supply	12/24V
Power Consumption	5W
Operating temperature (°C)	-20~70
Storage temperature (°C)	-30~80
Dimension	180mm*121mm*26mm
Accessories	Remote Controller, Power supply cable, user manual, bracket



Installation Instruction



Millimetre Wave Radar

The system uses **millimetre wave radar technology** to transmit and receive signals via an antenna. It accurately calculates the **distance, speed, angle, and movement direction** of surrounding objects in real time.

Designed for **reversing and parking safety**, it ensures reliable obstacle detection and is widely used in **trucks, construction machinery, and all HEMM vehicles**, even in harsh working environments.

Basic Function

SR. No	Object Distance	Distance Showing	Colour Bar Showing	Beep Frequency
1	>30.0 M	-----	No Showing	No Beep
2	24.0 - 30.0 M	24.0 - 30.0 M	 Blink	1Hz
3	18.0 - 23.9 M	18.0 - 23.9 M	 Blink	2Hz
4	12.0 - 17.9 M	12.0 - 17.9 M	 Blink	4Hz
5	6.0 - 11.9 M	6.0 - 11.9 M	 Blink	8Hz
6	0.5 - 5.9 M	0.5 - 5.9 M	 Keep On	Constant Beep
7	<0.5 M	STOP		

The system divides the detection range into **five warning stages**.

Note: The warning zones shown are based on a **30-meter detection distance setting**.