

# 3DPro2300Easy Radar Scanner

## ► Features and Advantages

### High-Precision 3D Scanning

The 3DPro2300Easy Radar Scanner uses 6,000 scanning points and a 360° horizontal, ±90° vertical rotational structure for precise 3D mapping of material surfaces, calculating levels, mass, and volume. Compared to traditional systems with fixed angles, it offers superior accuracy and generates real-time, detailed reports for better operational insights.

### Full Coverage & Reliable Performance

With signals emitted from thousands of angles, it ensures complete coverage without blind spots, even at varying material levels, providing accurate and reliable data. The system features easy installation, low maintenance, and automatic temperature shutdown, preventing damage. Dual power and network communication enhance reliability, with self-correction for alignment and compatibility with Linux and Windows systems.



## Applications

## Smart Monitoring for Smarter Decisions



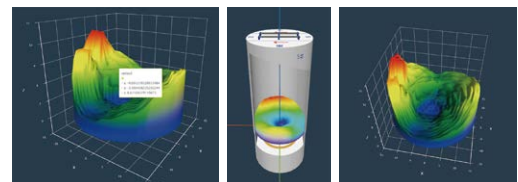
feed silos



grain silos



powder silos



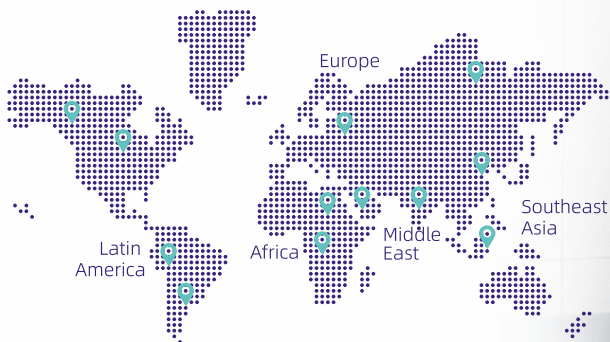
## ► Specifications

Model	3DPro2300Easy Radar Scanner	
Frequency	80GHz	140GHz
Material Type	Granules, powders, and other bulk solids	
Measuring Range	0.6m~120m	0.5m~40m
Beam Angle	3°	1.5°
Horizontal Rotation Angle Range	0...360°	
Pitch Measurement Angle	-90°...90°	
Scanning cycle	≥3.5 minutes	
Power Supply	24 VDC / 90~230 VAC	
Power	12 W	
Device Weight	3 kg	
Device Communication Method	Wi-Fi / Ethernet	
System Signal Method	4...20mA, RS485, Ethernet (MODBUS TCP, OPC UA Custom, Web API, MQTT)	
Application Unit Communication Method	Ethernet, Fiber, 4G/5G, Wireless Bridge	
Environmental Temperature	-40°C-75°C, higher customization available	
Operating Pressure	0...1 bar, higher customization available	
Protection Rating	IP68	
Accuracy	Level measurement accuracy: +2mm; 3D volume modeling accuracy: ±0.5%FS...±2%FS	
Installation Method	≥DN200 flange	

## ► Company Profile

RETTAR is a leader in AI-driven radar technology, advancing industrial measurement solutions worldwide. Founded in 2007 and headquartered in Beijing, the company originated from Tsinghua University and operates an R&D center serving 20+ countries, with 180+ patents and international certifications.

Recognized in 2024 as a national-level “Little Giant” enterprise, RETTAR excels in radar level measurement and 3D vision imaging, offering innovative automation and control products. By delivering tailored solutions, RETTAR drives efficiency and precision, shaping the future of industrial automation.



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