

STI-DSIR50-H2CG-T 3D Imaging Radar



The explosion-proof 3D Imaging Radar can perform real-time material scanning of room temperature silos, tanks, stockpiles and other silos through two-dimensional axial 360° scanning, and realize functions such as static target detection, point cloud data output, spatial scanning imaging, volume and weight calculation output within the spatial range, and is not affected by harsh environments such as rain, dust, and light.

- Perform high-precision imaging of the target through two-dimensional axial 360° scanning.
- The antenna beam angle is small, the measurement is more accurate and the detection distance is longer.
- The maximum imaging radius is 50 meters.
- Support outputting material surface and volume when combined with imaging host. The error of volume calculation is $\leq 3\%$.
- Equipped with high-precision attitude sensor for self-correction of inclination.
- Standard flange connection.
- Works around the clock, unaffected by rain, dust, light, temperature and other environmental factors.

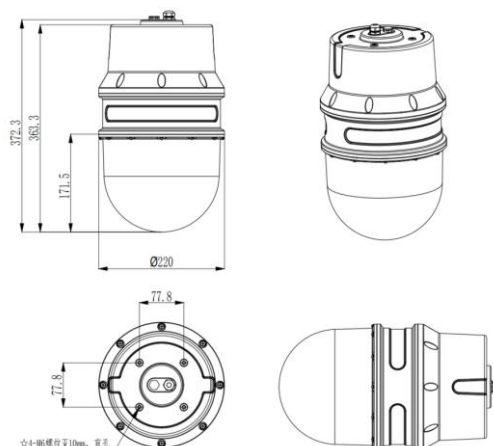
▪ Specification

Product Parameters	
Antenna Angle	2°
Horizontal Scan	360°
Vertical Scan	180°
Imaging radius	≤50 m
Imaging time	≥30 s
Distance measurement accuracy	±5 mm
Attitude angle accuracy	0.3°
System Parameters	
External interface	1 4~20 mA output, 1 RS485, 1 100M Ethernet, 2 relay alarm signals
Wireless debugging	WiFi
Point cloud output	Ethernet
Data Protocol	Private Protocol
Operating voltage	18V~32 DC
Power consumption	≤30W
Operating temperature	-40 °C~+85°C
Protection level	IP67
Explosion proof signs	Ex tb III C T85 °C Db
Product Material	Aluminum/Plastic
Size	
Dimensions	380 mm *220 mm (height*diameter)
Weight	8kg
With Package Weight	16kg

▪ Available Model

STI-DSIR50-H2CG-T

▪ Dimension



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