

DHI-IPMECR-A6

Dahua Anti Smashing Radar



Functions

Universal Compatibility

The radar leverages intelligent algorithms to filter interference from various barrier arm types and its wide field of view improves monitoring coverage and detection predictability. Using Digital Beamforming (DBF) with narrow-beam logic, it focuses detection to effectively mitigate barrier-induced errors. It is compatible with mainstream barrier types, including advertising, fence, straight-arm and folding-arm barriers.

Scene

The Barrier Anti Smashing Radar is specially designed for entrance and exit control in parking facilities, such as basement parking lots. Integrated with the barrier's main control board, it precisely controls the rise and fall of the arm to prevent accidental impacts and provide intelligent anti smash protection.

Technical Specification

Basic

Radar Modulation Type	FMCW
Radar Frequency Range	60 GHz–64 GHz
Radar Power Transmission	11 dBm
Bluetooth Standard	BLE5.0
Bluetooth Frequency Range	2.402 GHz–2.480 GHz
Bluetooth Power Transmission	≤8 dbm

- The Barrier Anti Smashing Radar is specially designed for entrance and exit control in parking facilities, such as basement parking lots. Integrated with the barrier's main control board, it precisely controls the rise and fall of the arm to prevent accidental impacts and provide intelligent anti smash protection. The hardware and software are also intelligently combined, enabling the radar to accurately distinguish pedestrians, vehicles and other objects in the barrier zone, reducing collisions and missed or failed closures. Built on Radio Frequency System-on-Chip (RFSoC), the Radar delivers a compact, cost effective solution for 24/7 operation with high detection sensitivity, reliable accuracy, simple commissioning and convenient installation. It also operates at 60 GHz and uses linear FMCW with up to 4 GHz of active bandwidth for precise range and velocity measurement. Additionally, the millimeter wave antenna supports multiple transmission and receiving modes, delivering high angular resolution and strong target discrimination.

Beamwidth	Vertical 20° (-6° to +14°), horizontal 120° (±60°)
Response Time	100 ms
Detection Region	1.5 m (4.92 ft) (default, adjustable)
Anti-smashing Region	0 m-6 m (0 ft–19.69 ft)

Function

Detection Target	person/vehicle
Online Commissioning	Yes (debugging by app and serial port)
Update	Yes (online update through app and serial port)
Snapshot Mode	Yes

Port

RS-485	1
I/O	1 channel

General

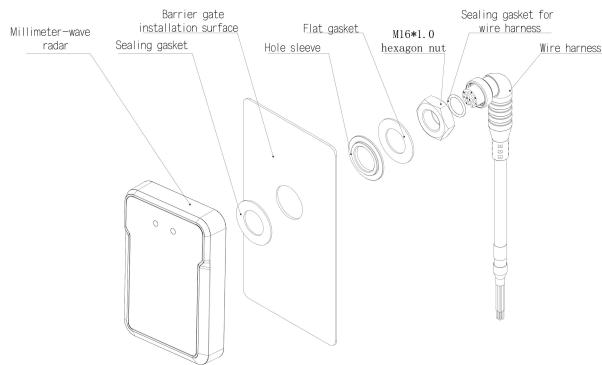
Operating Voltage	9–24 VDC
Operating Current	50 mA
Power Consumption	<0.5 W (average power consumption)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-10 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	0%–90% (RH), non-condensing
Storage Humidity	0%–90% (RH), non-condensing
Protection	IP67

Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.
Product Dimensions	107.9 mm × 73.6 mm × 33.2 mm (4.25" × 2.9" × 1.31") (L × W × H)
Packaging Dimensions	164 mm × 113 mm × 49 mm (6.46" × 4.45" × 1.93") (L × W × H)
Net Weight	118 g (0.26 lb)
Gross Weight	293 g (0.65 lb)
Installation	Side installation

Ordering Information

Type	Model	Description
Anti Smashing Radar	DHI-IPMECR-A6	Dahua Anti Smashing Radar

Installation



Dimensions (mm[inch])

