

DH-PFR4K-E50 50m Security Radar



- \cdot 24/7 all-weather
- · Wide-range detection
- · High accuracy
- · Target filtering
- · Radar-PTZ linkage
- \cdot Front-end PTZ control
- · Centralized management
- · Smart tracking
- · IP67/IK09
- · FCC ID/CE RED



System Overview

Adopt 24 GHZ radar chip for 24/7 all-weather high-accuracy detection in the range of 50 m/120°. Support radar-PTZ smart tracking, compatible with common Dahua speed domes. With radar detection and intelligent algorithms, ultra-low false positives and zero false negatives are achieved around the clock. Multiple PTZ cameras can be linked to one radar, and wide range global arming and detail tracking is realized simultaneously. The product is widely applied to various perimeter and intrusion arming sites such as villas, warehouses, prisons, airports, and oilfields to provide users with safer and more valuable security protection solutions.

Functions

K-band Detection

Adopt 24 GHz radar chip for detection with long distance, high accuracy, wide range, and 24/7 all weathers to realize ultra-low false positives and zero false negatives in armed regions.

Radar+PTZ Smart Tracking

Support linkage between radar and common Dahua speed domes. Multiple speed domes can be linked with one radar (link up to 3 speed domes on web manager, and up to 8 on platform). Both radar and cameras can be installed separately.

Multi Level Perimeter Protection

Support region setting with different alarm priority, external alarm linkage, human and vehicle filtering, and vehicle detection with low and medium speed.

Front-end PTZ Control

Low delay with radar directly controlling camera tracking. Display radar-PTZ linkage on web manager, and one radar can link with multiple cameras. Video stream acquisition, and map and trajectory display on NVR or platform is also supported.

Intelligent Algorithm of Radar

Intelligent algorithm is used to identify complex scenes and achieve high accuracy in different scenarios. Alarm is triggered once radar detection range is covered or radar is rotated substantially. Support human and vehicle recognition.

Centralized Platform Management

Support radar configurations and management of multiple radars on platforms. Display radar-PTZ smart tracking on the map.

Ingress Protection and Certifications

Meet IP67 and IK09 ingress protection, and FCC ID and CE RED standards.



Detector Series | DH-PFR4K-E50

Technical Specification

Performance

Performance	
Max. Target Number	64
Detection Distance	Human: 50 m (164.04 ft) Vehicle: 50 m (164.04 ft)
Detection Angle	Horizontal: 120° Vertical: 36°
Max. Detection Speed	40 km/h, continuous trajectory
Min. Detection Speed	0.6km/h, continuous trajectory
Distance Accuracy	± 1 m (± 3.28 ft)
Angle Accuracy	± 1°
Max. Area Number	10
Modulation Type	FMCW
Scan Frequency	10 Hz
Operating Frequency	24 GHz
Transmission Power	<20dBm (100mW)
Detection Target Type	Human and vehicle
Function	
Radar+PTZ Smart Tracking	Supported on web manager
Track Mode	Tour, distance priority, and time priority
Region Setting	Alarm area, pre-warning area, and shield area
Environment Mode	General, shrub, and capacious
Target Filtering	Human and vehicle filtering
Channel Selections	Yes
Record Mode	Manual record, scheduled record, and alarm record Record priority: Manual>Alarm>Scheduled
Restore Default Settings	Restore default settings with one click
Security Mode	Authorized user name and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access control
Power Output	Support 12 V DC power output with maximum 165mA current and 12 V voltage
Map Encoding	Yes
Network	
Ethernet	RJ-45 (10Base-T/100Base-TX)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, and 802.1x
Interoperability	ONVIF Profile S&G, CGI
User/Host	19
Storage	NAS; local PC; micro SD card (256 G)
Browser	IE: Versions later than IE7 Google: Versions earlier than Chrome45 Firefox: Versions earlier than Firefox46
Matched Platform	SmartPSS, DSS

Alarm InputI channel (support SV DC potential and smA suremed) channel (sty contact; support max 30V DC potential and max 300m Ac urrent) and max 300m Ac urrent) and max 300m Ac urrent) and max 24 current) and and 24 capacity warming SD card error, network access accessed and accessed accessed accessed accessed accessed accessed accessed accessed accessed acces	Port		
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Detector Series | DH-PFR4K-E50

Ordering Information				
Туре	Part Number	Description		
Radar	DH-PFR4K-E50	50 m security radar		
Bracket	DH-PFB510W	Radar bracket, support wall- mounting and ceiling-mounting		
	DH-PFA150	Pole mount bracket, support vertical or horizontal pole mounting		
	DH-PFA151	Corner mount bracket		
Power Adapter	DH-PFM320D-015	Power adapter, DC12V/1.5A		

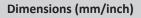
Accessories

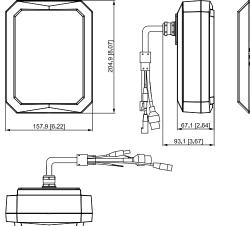


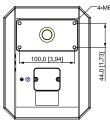
DH-PFB510W Radar bracket



DH-PFA151 Pole mount bracket Corner mount bracket







Package Information

- · Radar × 1
- \cdot Waterproof connector for network cable × 1
- \cdot Allen wrench × 1
- \cdot Quick start guide × 1
- \cdot Quality certificate × 1
- · Legal and regulatory information × 1
- · QR code label ×1



DH-PFM320D-015 Power Adapter DC12V/1.5A

	Wall Mount	Ceiling Mount	Corner Mount
	PFB510W	PFB510W	PFB510W+PFA151
C			
	Pole Mount	Pole Mount	
	PFB510W+PFA150	PFB510W+PFA150	
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