

DH-PFR4K-B240

240 m Security Radar for Perimeter Protection



- 24/7 all-weather
- Crossing detection
- High accuracy
- Target filtering
- Radar-PTZ linkage
- Front-end PTZ control
- Centralized management
- Smart tracking
- •IK10
- CE RED

Series Overview

This security radar adopts 24 GHz radar chip for 24/7 all-weather high-accuracy detection in the range of 240 m/20°. It supports radar-PTZ smart tracking, compatible with common Dahua PTZ cameras. With radar detection and intelligent crossing detection algorithms, ultra-low false alarms and zero missed alarms are achieved around the clock. Multiple PTZ cameras can be linked to one radar, and wide range global arming and detail tracking are realized simultaneously.



Functions

K-band Detection

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

Crossing Detection

Adopting dahua intelligent radar algorithm, the radar integrates superior ability to detect targets crossing the radar defense zone laterally.

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

Support human and vehicle recognition.

Centralized Platform Management

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

Protection and Certifications

IK10 protection grade, and CE RED standards.

Scene

The product is widely applied to various perimeter and intrusion arming sites such as farms, prisons, airports, and oilfields to provide users with safer and more valuable security protection solutions.

Detector Series | DH-PFR4K-B240

Technical Specification

Performance

Performance		
Max. Target Number	32	
Detection Distance	Radial 300 m (984.25 ft) (human, 0°) Cross 240 m (787.40 ft) (human, walking/running) Cross 150 m (492.12 ft) (human, crouch walking/ crawling)	
Detection Angle	Horizontal: 20° Vertical: 13°	
Max. Detection Speed	Radial: 80 km/h Crossing: 36 km/h	
Min. Detection Speed	0.18 km/h	
Distance Accuracy	± 1.5 m (± 4.92 ft)	
Angle Accuracy	± 1°	
Max. Area Number	10	
Modulation Type	FMCW	
Scan Frequency	8 Hz	
Operating Frequency	24 GHz	
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	Intrusion: Alarm area, pre-warning area, and shield area Tripwire: Alarm area	
Target Filtering	Human and vehicle filtering	
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	
Positioning	GPS, Glonass	
Map Encoding	Yes	
Network		
Ethernet	RJ-45 (10 Base-T/100 Base-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	DSS Pro	
Port		
Alarm Input	1 channel (support 5V DC potential and 5mA current)	

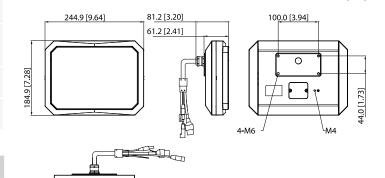
Alarm Output	5 channels (wet contact; support max 12V DC potential and max 300mA current) $% \left(\frac{1}{2}\right) =0$	
Alarm Linkage	Snapshots, radar-PTZ linkage, SD card record, alarm triggering output, and email sending	
Alarm Event	Radar alarm, no SD card, SD card capacity warning, SD card error, network disconnection, IP conflict, full disk, and illegal access	
SD Card	Yes	
Indicator Light	Network connection: Yellow Running status: Red/Green Power: Green	
Power		
Power Supply	12V DC (±30%), 24V AC (±30%), PoE (802.3at)	
Power Consumption	Basic: 16 W Max.: 20 W	
Environment		
Operating Temperature	-40°C to +65°C (-40°F to +149°F)	
Operating Humidity	≤95% (RH)	
Storage Temperature	-40°C to +80°C (-40°F to +176°F)	
Storage Humidity	≤ 95% (RH)	
Ingress Protection	IK10	
ESD	Contact discharge: 6k Air discharge: 8k	
Surge Protection Grade	Common mode: ± 6kV Differential mode: ± 2kV	
Structure		
Color	White	
Casing	ADC12+PC	
Product Dimensions	244.9 mm × 184.9 mm × 61.2 mm (9.64" × 7.28" × 2.41")	
Packaging Dimensions	328 mm × 146 mm × 278 mm (12.90" × 5.75" × 10.95")	
Net Weight	2.84 kg (6.26 lb)	
Gross Weight	3.40 kg (7.49 lb)	
Installation Method	Wall mount; ceiling mount; pole mount	
Installation Height	3.0 m to 5.0 m (3.0 m recommended) (9.84 ft to 16.40 ft) (9.84 ft recommended)	
Installation Position	Separate or integrated installation	
Certification		
Certifications	CE:EN 50385; EN 55032; EN 55024; EN 55035; EN 50130-4; ETSI EN 301 489-1; ETSI EN 301 489-3; EN 60950-1 CE RED: EN 300440	

Detector Series | DH-PFR4K-B240

Ordering Information

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Туре	Model	Description
240 m Perimeter Security Radar	DH-PFR4K-B240	240 m perimeter security radar
Accessories	PFB414W	Radar-PTZ Linkage bracket, supports integrated installation of multi-type radars and PTZ cameras
	PFB510W	Radar bracket, supports wall mount and ceiling mount
	PFA150	Pole mount bracket, supports vertical or horizontal pole mount

Dimensions (mm[inch])



Installation



PFB414W Radar-PTZ Linkage bracket

PFB510W Radar bracket



PFA150 Pole mount bracket

Integrated Installtion	Separate Installtion		
Wall mount	Ceiling mount	Wall mount	
Vertical Pole Mount	Vertical Pole Mount	Horizontal Pole Mount	

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