

EmPower IP Camera Series

◆ TM-TVBL-F25D-PC ◆

Thermal Bullet Network Camera



Features

- ◆ 400×300 uncooled VOx thermal sensor technology
- ◆ Athermalized lens (thermal), focus-free
- ◆ Support temperature measurement
- ◆ 25mm fixed lens
- ◆ 2/2 alarm in/out
- ◆ Micro SD memory
- ◆ IP67, PoE, ePoE

System Overview

Featuring a fixed lens bullet camera, this series provides an all-in-one solution that is especially beneficial for temperature measurement. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.

Functions

Uncooled Vox Technology

EmPower thermal cameras use uncooled Vox sensor technology. Because of small size and better performance, it's cost-effective solution for thermal security.

High Sensitivity

High thermal sensitivity(<40mK) makes cameras capture more image details and temperature difference information.

Temperature Measurement

This thermal cameras provide remote temperature monitoring functionality with the ability to set temperature threshold alarms. Object temperatures can be monitored in daytime or at night, making them ideal for usage in power plant or oil extraction applications where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is triggered. The temperature range is between -20°C to 550 °C (-4°F to 1022 °F).

Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

Environmental

With a temperature range of -40°C to +70°C (-40°F to 158°F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting ±15% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

EmPower IP Camera Series

◆ TM-TVBL-F25D-PC ◆

Technical Specification

Thermal

Detector Type	Vanadium oxide uncooled focal plane detector		
Effective Pixels	400 × 300		
Pixel Pitch	17 μm		
Spectral Range	8 μm–14 μm		
Thermal Sensitivity (NETD)	≤40 mK		
Focal Length	25 mm		
Field of View	Horizontal: 15.5°, vertical: 11.6°		
Focus Mode	Fixed-focal		
Aperture	F1.0		
	Detection	Recognition	Identification
DRI Distance Based on the reference: human (1.8 m × 0.5 m) vehicle (4 m × 1.4 m)	Vehicle: 1961 m (77204.72 ft) Human: 735 m (28937.01 ft)	Vehicle: 490 m (19291.34 ft) Human: 189 m (7440.95 ft)	Vehicle: 245 m (9645.67 ft) Human: 95 m (3740.16 ft)
Digital Detail Enhancement (DDE)	Yes		
Thermal Image Stabilization	Electronic Image Stabilization		
AGC	Auto; manual		
Noise Reduction	2D NR; 3D NR		
Image Flip	90°/180°/mirror		
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire.		
Temperature Measurement Range	Low temperature mode: -20°C (-4°F) to +150°C (302°F) High temperature mode: 0°C (34°F) to +550°C (1022°F)		
Temperature Accuracy	Max (±2°C, ±2%) Operating temperature: -20°C (-4°F) to +60°C (140°F)		
Temperature Mode	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously		

Audio and Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG
-------------------	-------------------------------------

Resolution	Main stream: (1280 × 1024/1280 × 960/1280 × 720/400 × 300), 1280 × 960 by default; Sub stream: (640 × 512/640 × 480/400 × 300@), 400 × 300 by default
Audio Compression	G.711a; G.711mu; AAC; PCM
Image Encoding Format	JPEG

General Function

Two-way Talk	Yes
Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; SNMP; QoS; UPnP; NTP
Region of Interest (ROI)	Yes
Edge Storage	FTP; Micro SD card (256G, hot plug)
Interoperability	ONVIF; CGI; Dahua SDK
Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier Safari: 10 and the earlier
User/Host	20 channels at most (the total bandwidth 64M)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.
Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)

Professional and Intelligent

Advanced Intelligent Functions	Fire detection & alarm, Cold/Hot spot tracking, Human/Vehicle classification, Auto Tracking
IVS Analytics	Tripwire/intrusion

Port

Analog Video Output	1 channel of CVBS output with BNC port
Network	1 10M/100M Ethernet port (RJ-45)
Alarm Input	2 channels
Alarm Output	2 channels
Audio Input	1 channel
Audio Output	1 channel
Alarm Linkage	SD card recording/on-off output/ siren and light/email/PTZ/snapshot
Alarm Event	Motion detection/privacy mask/audio detection/SD card abnormality/network abnormality/anti-burn warning

EmPower IP Camera Series

◆TM-TVBL-F25D-PC◆

RS-485	1 channel
Power	
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE
Power Consumption	Basic: 5.0W Maximum: 13W (power adapter excluded)
Environment	
Operating Temperature	-40°C to +70°C (-40°F to 158°F)
Operating Humidity	≤95%
Storage Temperature	-50°C to +80°C (-58°F to 176°F)
Self-Adaptive	Auto heating to protect the chip under the cold environment
Physical Characteristics	
Protection Grade	IP67, anti-surge 6KV, anti-electrostatic 8KV (touched by objects), anti-electrostatic 15KV (air)
Dimensions	291 mm × 103.7 mm × 97 mm (11.46" × 4.06" × 3.82")
Packaging Dimensions	365 mm × 175 mm × 176 mm (14.37" × 6.89" × 6.93")
Net Weight	≤1.4 kg (3.09 lb)
Gross Weight	≤1.9 kg (4.19 lb)
Power Adaptor	Selectable
Lens	Contained
Certification	
Certifications	CE; FCC

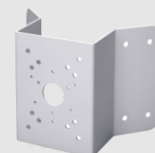
Accessories(Optional)



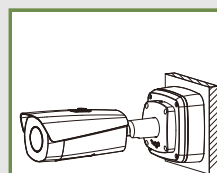
PFA121-V2
Junction Box
(Wall Mount)



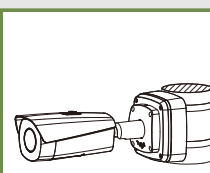
PFA152-E
Pole Mount



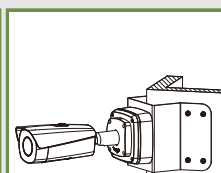
PFA151
Corner Mount



PFA121-V2
Junction Mount

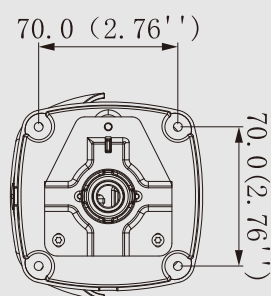


PFA121+PFA152-E
Pole Mount



PFA121+PFA151
Corner Mount

Dimensions(mm/inch)



比例 1:2

