Saitell®

EmPower IP Camera Series

TM-BMBL-F13080-EA



Thermal Body Temperature Measurement Bullet Network Camera

Features

- ♦ 400×300 uncooled VOx thermal sensor technology
- Athermalized lens (thermal), focus-free
- Support body temperature measurement
- Measurement Accuracy: ±0.3°C, with blackbody
- Active deterrence with white light & siren
- 2/1 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 body temperature measurement.

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.

Protection

The camera allows for wide input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Body Temperature Measurement

EmPower thermal cameras characterized by non-contact, multi-objective, rapid, and no risk to temperature testers, etc. It can be conveniently deployed in public places with dense personnel, and can be used for efficient and safe preliminary screening of temperature anomalies.

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| Technical Specification | | | Thermal Main stream: (1280 × 1024/1024 × 768/640 × 480/256 × 192@), 1280 × 960 by default; |
|---|--|--|---|
| Thermal | | | |
| Detector Type | Vanadium oxide uncooled focal plane detector | Sub stream: (640 × 51: Resolution 192 by default Visible Main stream: (1920 × × 576@), 1920 × 1080 | |
| Effective Pixels | 400 × 300 | | Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 by default; |
| Pixel Pitch | 17 µm | | Sub stream: (704 × 576/352 × 288@), 355 x 288 by default |
| Spectral Range | 8 μm–14 μm | Thermal: 50Hz: Main stream (1fps-25fps),25fps by default; sub stream (1fps-25fps),15fps by default; 60Hz: Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default; Visual: 50Hz: Main stream (1fps-25fps),15fps by default; 60Hz: Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default; sub stream (1fps-30fps),15fps by default; | |
| Thermal Sensitivity (NETD) | ≤40 mK | | Main stream (1fps-25fps),25fps by default; |
| Focal Length | 13 mm | | 60Hz: |
| Field of View | 13 mm: horizontal: 30°, vertical: 22.6° | | |
| Focus Mode | Fixed-focal | | |
| Aperture | F1.0 | | 60Hz: |
| Digital Detail Enhancement (DDE) | Yes | | |
| Thermal Image Stabilization | Electronic Image Stabilization | Audio Compression | G.711a; G.711mu; AAC; PCM |
| AGC | Auto; manual | Image Encoding Format | JPEG |
| Noise Reduction | 2D NR; 3D NR | General Function | |
| Image Flip | 90°/180°/mirror | Two-way Talk | Yes |
| Color Palettes | 18 color modes selectable such as Whitehot/ Blackhot/Ironrow/Icefire. | Network Protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; SNMP; QoS; UPnP; NTP |
| Temperature | 30°C ~+45°C | Region of Interest (ROI) | Yes |
| Measurement Range | | Edge Storage | FTP; Micro SD card (256G, hot plug) |
| Temperature Accuracy | Max ±0.3°C with blackbody Max ±1°C without blackbody | Interoperability | CGI; SDK |
| Temperature Mode | Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously | 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 |
| Visible | | User/Host | 20 channels at most (the total bandwidth |
| Image Sensor | 1/2.8" 2M CMOS | , | 64M) Authorized username and password; |
| Effective Pixels | 1920(H)×1080(V) | Security | attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access |
| Electronic Shutter Speed Min. Illumination | 1/1 ~ 1/30,000s Color: 0.002Lux; B/W: 0.0002Lux; 0Lux (IR | User Management | Support 20 users at most and users are classified as two groups-administrator group and user group. |
| IR Distance | on) 35m | Malfunction Detection | Network disconnection; IP addresses conflict; SD card error (status or storage space) |
| IR On/Off Control | Auto/Manual | Port | |
| IR LEDs | 1 | Network | 1 10M/100M Ethernet port (RJ-45) |
| Focal Length | - 8mm | Alarm Input | 2 channels |
| Aperture | F1.9 | Alarm Output | 1channel |
| Angle of View | H: 40° V: 22° | Audio Input | 1 channel |
| Audio and Video | | Audio Output | 1 channel |
| | | | SD card recording/on-off output/ |
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG | Alarm Linkage | siren and light/email/PTZ/snapshot |



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| Alarm Event | SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio abnormal; security exception;Temperature Measurement;blackbody exception | | |
|--------------------------|--|--|--|
| RS-485 | 1 channel | | |
| Power | | | |
| Power Supply | 12V±20% DC, 1.2A, PoE (802.3af), ePoE | | |
| Power Consumption | Basic: 5.0W Maximum: 12W (power adapter excluded) | | |
| Environment | | | |
| Operating Temperature | 10°C to +30°C | | |
| Storage Temperature | -40°C to +70°C | | |
| Operating Humidity | ≤95% | | |
| Self-Adaptive | Auto heating to protect the chip under the cold environment | | |
| Physical Characteristics | | | |
| Protection Grade | IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air) | | |
| 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 | | |
| Certification | | | |
| Certifications | CE; FCC | | |

Accessories(Optional)







PFA121 Junction Box (Wall Mount)

PFA152-E Pole Mount

PFA151 Corner Mount

Dimensions(mm/inch)







