

TPC-CA560N

Thermal Camera Module



- Vanadium oxide uncooled focal plane detector.
- RJ-45 port (10/100 Base-T); RS-232/485 port, and alarm port (I/O).
- Image optimization algorithms such as FPNC and SFFC, and function settings such as brightness, sharpness, pseudo color, and gain.
- Lenses of multiple focal lengths.
- Heat map exporting.
- Save configuration to record the user's habits.

Scene

It is applicable to industry, agriculture and forestry, medical treatment, transportation, power, fire protection, construction, security and other fields, and realizes night vision observation, heat detection and other functions. This module is mainly applied in assemble scenario of various camera types.

Technical Specification

Thermal

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|----------------------------------|---|
| Detector Type | Vanadium oxide uncooled focal plane detector |
| Effective Pixels | 640 (H) × 512 (V) |
| Pixel Pitch | 12 μm |
| Spectral Range | 8 μm–14 μm |
| Sensitivity (NETD) | ≤35 mK (@f/1.0) |
| Thermal Focus Control | Fixed-focal |
| Digital Detail Enhancement (DDE) | Yes |
| Thermal AGC | Auto/Manual |
| Thermal Noise Reduction | 2D NR/3D NR |
| Image Flip | 180°; Mirror |
| Color Palettes | 18 (white hot/black hot/fusion/rainbow/golden autumn/midday/iron red/amber/jade/sunset/icefire/painting/pomegranate/emerald /spring/summer/autumn/winter) |

Audio and Video

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|-------------------|---|
| Video Compression | Main stream: H.265; H.264; H.264H; H.264B; Sub stream: H.265; H.264; H.264H; H.264B; MJPEG |
| Resolution | Main stream: 1280 × 1024 (SXGA); 1280 × 720 (720p); 640 × 512 (640 × 512); 1280 × 1024 (SXGA) (default); Sub stream: 640 × 512 (640 × 512); 320 × 256 (320 × 256); 640 × 512 (640 × 512) (default); |
| Video Frame Rate | 50 fps (default) |

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| Image Encoding Format | JPEG |
|-----------------------|------|

Function

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|--------------------------|---|
| Network Protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; IPV4; NTP |
| Region of Interest (RoI) | Yes (customizable) |
| Interoperability | ONVIF (supports some basic functions); SDK |
| Browser | IE: IE8 and later (including the browsers with IE kernel, such as 360 Explorer, Sougou Explorer) Chrome: 42 and earlier Firefox: 42 and earlier |
| User/Host | Up to 6 |
| Security | Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access |
| User Management | Up to 20 users; supports multi-level user permissions (2 levels): management group and user group |
| Malfunction Detection | Network disconnection detection; IP conflict detection |

Intelligence

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|---------------------|-----|
| Heat Detection | Yes |
| Cold/Hot Spot Trace | Yes |

Port

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|--------------|---------------------------|
| Network Port | 1 × RJ-45 (10/100 Base-T) |
| Alarm Input | 1 |
| Alarm Output | 1 |
| RS-485 | 1 |
| RS-232 | 1 |

Power

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|-------------------|----------|
| Power Supply | 5–12 VDC |
| Power Consumption | <1.8 W |

Environment

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|-----------------------|--------------------------------------|
| Operating Temperature | -30 °C to +60 °C (-22 °F to +140 °F) |
| Operating Humidity | ≤95% |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |

Physical Characteristics

| | |
|--------------------|--|
| Protection | IP5X |
| Product Dimensions | 44.4 mm × 44.4 mm × 54.7 mm (1.75" × 1.75" × 2.15") (L × W × H) |
| Net Weight | 121.3 g (0.25 lb) |

Dimensions (mm[inch])

