UCAM-220TT (Thermographics Turret

Camera)



Features

- 160 × 120 resolution in thermal channel, high sensitivity sensor.
- Point, line and area for temperature measurement
- Temperature range: 30°C to 45°C; temperature accuracy: ±0.5 °C
- Reliable temperature exception alarm function
- 3D DNR, image detail enhancement
- Strobe light and audio alarm

Introduction

UCAM-220T Thermographic Turret Temperature Measurement Can era is able to measure object's temperature at a high accuracy in real time. It is capable to discover and trank people with higher body temperature among the crowded public area, it can be widely used in places such as customs, airport, school and hospital for inspection and quarantine.

Key Functions

High Efficiency

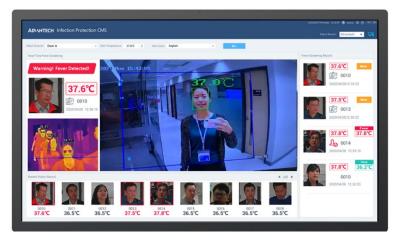
It only needs one second that UCAM-27.01T can detect temperature of each person. The of re, no congestion will be made when passing through the site where temperature needs to heck.

Facial Counting & Recognition Integrated Management Software

UCAM-220TT support AI face detection, multiple targets detect body temperature at the same time that can integrated with Advantech Video Al Facial Recognition Edge. The Integrated Central Management System can record the face detected information and identification for further management

Safety

UCAM-220TT supports non-contact temperature measurement which can achieve accurately measuring temperature around 1 meter away that reduce the risk of infection coming from physical contact.



Last updated: 04-Feb-2023

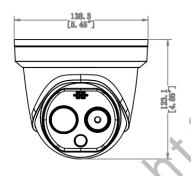
Specifications

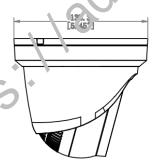
| - | Imaga Sansar | Vanadium Oxide Uncooled Focal Plane Arrays |
|-------------------|--|---|
| | Image Sensor Max. Resolution | 160 × 120 (the resolution of output image is 320 × 240) |
| | | , , , |
| | Pixel Interval | 17μm |
| Thermal Module | Response Waveband | 8 μm to 14 μm |
| | NETD (Noise Equivalent Temperature Difference) | ≤ 40 mk (@25 °C,F# = 1.1) |
| Tricitilal Wodule | Lens (Focal Length) | 3.1 mm |
| | IFOV | 5.48 mrad |
| | Field of View | 50° × 37.2° (H × V) |
| | Min. Focusing Distance | 0.3 m |
| | Aperture | F 1.1 |
| | Frame Rate | 8.3 fps(9Hz) |
| | Max. Image Resolution | 2688 × 1520 |
| | Image Sensor | 1/2.7" Progressive Scan CMOS |
| | Min. Illumination | Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON) |
| | Shutter Speed | 1 s to 1/100,000 s |
| Optical Module | Lens (Focal Length) | 4 mm |
| | Field of View | 84° × 44.8° (H × V) |
| | WDR | 120 dB |
| | Day & Night | IR cut filter with auto switch |
| | Bi-spectrum Image Fusion | Fusion view of thermal view and overlaid details of the optical channel |
| Image Function | Picture in Picture | Combines details of thermal and optical in age PIP, overlay thermal image on optical image |
| | VCA (Video Content Analysis) | 4 VCA rule types (line crossing, intrusion egion entrance, and region exiting), up to 8 |
| | | VCA rules in total. |
| | Temperature Measurement | 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, |
| Smart Function | | and 1 |
| Smart Function | | line). |
| | Temperature Range | 30°C to +45 °C |
| | Temperature Accuracy | ± 0.5 °C |
| | Fire Detection | Dynamic i.e. poi t detection, up to 10 fire points detectable. |
| | IR Distance | Up to 15 n |
| Infrared | IR Intensity and Angle | Autoria 'call', adjusted |
| | | Visible Light: 50Hz: 25fps (2688 × 1520), 25fps (1920 × 1080), 25fps (1280 × |
| | Main-Stream | 727) |
| | | Visi. le Light: 60Hz: 30fps (2688 × 1520), 30fps (1920 × 1080), 30fps (1280 × |
| | | 720) |
| | | Thermal: 1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240 (8.3 |
| | 60 | fps(9Hz)) Visible Light: 50Hz: 25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) |
| | Sub-stream | Visible Light: 60Hz: 30fps (704 × 480), 30fps (352 × 260), 25fps (776 × 144) |
| Network | Cub diream | Thermal: 704 × 576, 352 × 288, 320 × 240 (8.3 fps(9Hz)) |
| INCLWOIK | Video Compression | H.265/H.264/MJPEG |
| | Audio Con.pression | G.711u/G.711a/G.722.1/MP2L2/G.726/PCM |
| | Procesols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, |
| | | DDNS, NTP, RTSP,RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE |
| | Simultaneous Live View | Up to 20 |
| | User/Host Level | Up to 32 users, 3 levels: Administrator, Operator, User |
| | Security Measures | User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x, access control, IP address filtering |
| | | out.ix, docode control, if dadress intolling |

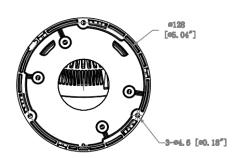
Thermographic Turret Camera

| | Alarm Input | 1-ch inputs (0-5 VDC) |
|-------------|-------------------------|---|
| | Alarm Output | 1-ch relay outputs, alarm response actions configurable |
| | Alarm Action | SD recording/relay output/smart capture/FTP upload/email linkage/audio alarm/white light alarm |
| Integration | Audio Input | 1, 3.5 mm Mic in/Line in interface. Line input: 2 to 2.4 V [p-p], output impedance: 1 K Ω ± 10% |
| | Audio Output | Linear level, impedance: 600 Ω |
| | Reset | 1, Reset Button |
| | Communication Interface | 1, RJ45 10M/100M self-adaptive Ethernet interface. 1, RS-485 interface |
| | SD Memory Card | Built-in micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128 GB) Supports manual/alarm recording |
| | Analog Video Output | 1.0 V [p-p]/75 Ω, PAL/NTSC |
| | Web Browser | IE9+, Chrome 31-44, Firefox 30-51, Safari 5.02+(mac) |
| General | Menu language | 32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil) |
| | Power | 12 VDC ± 20%, two-core terminal block PoE (802.3af, class 3) |
| | Power Consumption | 12 VDC ± 20%: 0.65 A, max. 7.5 W PoE (802.3af, class 3): 42.5 V to 57 V 0.1 I A to 0.22 A, max. 8 W |
| | Working | Temperature: -20 °C to 50 °C |
| | Temperature/Humidity | Humidity: 95% or less |
| | Protection Level | IP66 Standard TVS 6000V lightning prot∋c⁴.cn, surge protection, voltage transient protection |
| | Dimensions | 138.3 mm × 138.3 mm · 120.1 mm (5.45" × 5.45" × 4.85") |
| | Weight | 940 g (2.07 lb) |

DimensionSpecification







Ordering Information

| P/N | Description |
|----------------|-----------------------------|
| UCAM-220TT-U01 | Thermographic Turret Camera |
| 96PD-TCTAD | Turret Tripod adaptor |
| 96PD-TCABB | Black Body |
| | |