

Thermal Monitoring Systems

General information about ADTC-7045SM Thermal Security Monitoring Systems:

ADTC-7045SM can provide temperature monitoring and security monitoring for electrical equipments, machinery, flammable materials and important facilities on a 24/7 basis, 365 days a year.

They can find accident potentials in the first time and give auto alarms to ensure the company's safe production.

Main Features:

- ✓ Visual light & thermal imaging dual-channel real-time monitoring
- ✓ Monitoring in zero illuminance, smog and spray
- ✓ System front-end temperature measurement technology, quick and accurate temperature measurement
- ✓ 1 optical fiber to complete all controls and data transmission
- ✓ Auto cruise, auto alarm and report auto generating



Technical specification of the device:

Detector Data:

- Type:Uncooled FPA
- Pixels:640×480
- Pixel pitch:17μm
- Spectral range:7.5~14μm
- NETD:65mK

Lens Data:

- FOV/Minimum imaging distance:24°×18°/40cm
- IFOV:0.65mrad
- Focus:Auto/Manual
- Lens(Optional):15mm, 25mm, 35mm, 50mm, 75mm motorized or athermal lens

CCD Camera:

- Resolution:1920×1080
- Min. Illumination:Color: 0.01 Lux@(F1.2, AGC ON) B/W: 0.001 Lux@(F1.2, AGC ON)
- Zoom:12x(Digital,36x(Optical))

Pan & Tilt:

- Horizontal rotation angle:0° ~360° continuous rotation
- Presets:Supporting 255
- Vertical angle:Max: -75 ~+40°

Measurement:

- Temperature range:Standard: -20 °C~+350 °C Optional: -20°C~+1200°C
- Accuracy:±2°C or ±2% of reading
- Mode:Software settings
- Correction:Auto/Manual

Image Storage:

- Original image capture:Back-end manual capturing single frame,data image
- captured can be analysed & temperature-measured
- Image storage:H.264 real-time continuous image recording Single image
- storage, BMP format



Power System:

- External power: AC: 220
- Power consumption: ≤75W (@25 °C normal operation)
- Environmental Data
- Operation temp range: -40 °C~+60°C
- Humidity: ≤95% (non-condense)
- Encapsulation: IP66

Software:

- Running environment: Windows platform
- Customized content: Cruise route, cruise time, cruise times
- Operation mode: Auto/Manual
- Report mode: Supporting Word/PDF output
- Monitoring type: Remote monitoring (temperature can be overlaid)
- Query & Records: Recording alarms & abnormal thermal images, providing historical inquiry

Hardware configuration:

- CPU: ≥P3
- Memory: RAM: ≥512M
- HD Space: ≥20G
- Monitor resolution: Monitor resolution: 1440×900, 256colors, installed with CD-ROM

Internet:

- Type: 100Mbps
- Internet Low Bandwidth: Supporting low-bandwidth operation mode, covering
- not more than 0.8M bandwidth when transmitting temperature data & image data simultaneously
- Standard: IEEE802.3
- Connector: RJ-45
- General Protocols Supporting: IEC60870-5-104、IEC61850
- False Alarm Prevention Identification System: System's auto elimination for the surrounding thermal sources interference
- Service: Immediate feedback, 24-hr online service

