# *ThermalTronix*

## TT-CSLD-XE

## Technical Specifications

## FEATURES

- Full real-time display.
- Front temperature measurement, accurate temperature measurement.
- H.264 network video digital storage and transmission.
- Ex-mark: Ex d IIC T6 Gb/Ex tD A21 IP66 T80°C.
- The interface is rich and convenient for integration.
- Explosion proof characteristics, safety and stability.
- Full network output.

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# SPECIFICATIONS

| Items | | *ThermalTronix* TT-CSLD-XE |
|---|---|---|
| **Detector** | Detector type | Uncooled FPA |
| | Resolution | 384×288 |
| **Thermal image** | FOV/Min. Focal distance | 12°×9°/0.5m |
| | Spatial resolution | 0.67mrad |
| | Sensitivity | ≤0.06℃@30℃ |
| | Frame rate | 50/60Hz |
| | Focusing | auto/manual electric focus |
| | Spectral range | 8~14μm |
| **Visual image** | Zoom | 30X |
| | Resolution | 1080P |
| | Minimum illuminance | 0.005（Lux） |
| **PTZ** | Horizontal rotation angle | 0°～360° |
| | Preset | Support 255 presets |
| | Loading mode and range of motion | -90°～+90° |
| **Measurement** | Measurement range | -20℃~+650℃, UP to 1200℃ |
| | Accuracy | ±2℃ or ±2% |
| | Calibration | Auto/manual |
| | Measurement mode | Software setting |
| **Storage** | Original image collection | The back end manually collects single frame and 25 frame raw data images, and the collected data images can be analyzed and measured |
| | Storage | H.264 network video digital storage and transmission |
| | | Single image save, BMP format |
| **Power supply** | External power | 220AC |
| | Consumption | ≤75W (25℃ normal working) |
| **Environment** | Operating temperature | -40℃~+65℃ |
| | Encapsulation | Ex d IIC T6 Gb/Ex tD A21 IP66 T80℃ |
| | Humidity | ≤90% |
| **Auto identification** | | As for thermal image collected (auto or manual) to auto identify, identify the target by using the method of image registration to ensure the effect of temperature detection. |

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|---|---|
| **False alarm identification** | All of the temperature measurement based on effective target recognition, only measure the equipment marked, to auto remove the interference of outside heat source, to prevent false alarm. |
| **Equipment management** | Establish the management system of all equipment, analyze the temperature measurement during auto cruise, when alarming, the specific failure site can be find out. |
| **Auto cruise** | 128 presets, various auto cruise, realize the cruise, auto alarm, auto report. |
| **Auto warning** | Auto alarm, include text message and voice message, to find the concrete alarm position. |
| **Reports** | The system can auto generate the temperature analysis report of single thermal image, auto record temperature measurement value, to reverse the temperature change in a period of time. |
| **Thermal panorama** | Provide wide field of view, high-precision, 360 degrees full view thermal map. |
| **Front end temperature measurement** | The front end temperature measurement not depend on the direct output temperature of the computer system, the temperature signal is directly superimposed on the video signal. |
| **Dual FOV** | With the thermal camera and visual camera, it can ensure that the two cameras monitor the same equipment location, also solve the problem the thermal camera is difficult to identify the installation location of equipment to make timely judgement. |
| **Network low bandwidth** | Support low bandwidth operating mode, in the case of temperature data and image data, the bandwidth is not more than 0.8M. |
| **SDK** | Instrument real time control development kit |
| | Image processing development kit |
| | Thermal image transformer equipment intelligent identification development kit. |
| | Client remote control development kit |
| | Client WEB remote control development kit |
| **Development support response** | Instant response, 24 hours on-site support. |