STP1 Industrial Thermal Imaging Camera

STAN ONE ®

Compact IR Camera. Install in Electrical & Data cabinets.
24x7 Temperature Monitoring

The STP1 is an economical thermal imaging camera for use as a **first level troubleshooting tool** & **Continuous monitoring** for a variety of applications such as :

- **Data Centers**
- **Equipment Or Wiring Inside Electrical Cabinets**
- **Process & Manufacturing Areas**
- **Energy Generation Distribution**
- **Mass Transit, Transportation**

With the primary goal to detect & send alarms for increasing temperatures to guard against **outages** & **service interruptions**.

The STP1 can be accessed **remotely by any smart device** with the **help of provided web terminal software**. Supports multi protocol access to industrial or IOT systems.
It is possible to connect up to 32 devices for enhanced monitoring.

Built in 32GB memory
Remote access
Temp range -20~+550° C
256 x 192 Thermal camera
2 Megapixel camera
IP67 rating

STP1 I Fixed Thermal Imaging Camera Why & Where :
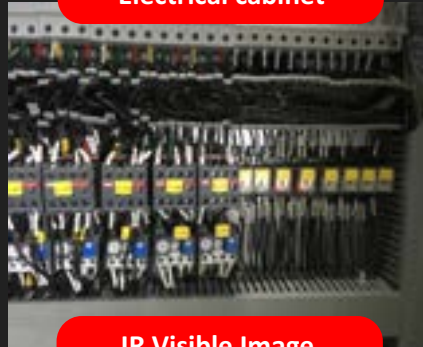
COMPACT & EASY TO INSTALL

The STP1 measures only **109 x 55.9 x 29.5mm**, making it easy to install in space constrained areas for uninterrupted condition monitoring.

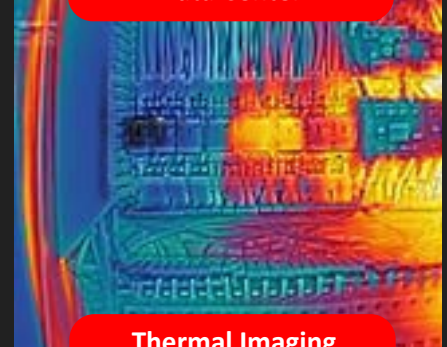**Thermal camera installation position**

It is advisible to detect **electrical faults at an early stage**, before it's too late. The STP1 can help you **discover overloads** & **overheating issues to accurately locate possible faults.**

Electrical cabinet

IR Visible Image

Data Center

Thermal Imaging

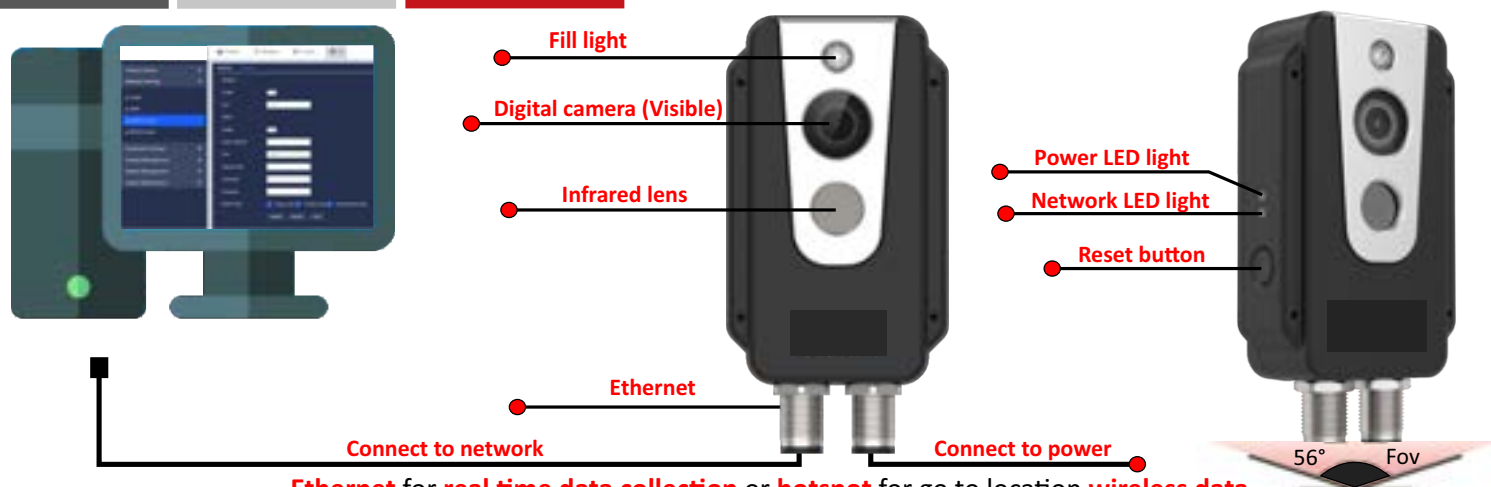**1080p Visible Camera Resolution**   **256x192 Thermal Detector Resolution**

All objects emit infrared light. **The hotter they are, the more infrared light they give off**.

The STP1 Compact Thermal camera will detect the **minutest in temperature variations as low as 0.04°C** & present a thermal heat map on a display device.

Every temperature range is assigned a **color** ; hence the different colors on the screen reveal **different temperature levels** on the recorded object.

The STP1 will monitor **highest**, **lowest** & **average temperature** of the entire frame/region monitored with separate alarm outputs.

STP1 Industrial Thermal Imaging Camera

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Fill light

Digital camera (Visible)

Infrared lens

Power LED light

Network LED light

Reset button

Ethernet

Connect to network

Connect to power

56° Fov

Ethernet for **real time data collection** or **hotspot** for go to location **wireless data collection** with web client based on **32GB internal memory** which stores data.

Specifications :

Model	STP1	
Detector type	Vox, Uncooled FPA detector	
Detector resolution	256 x 192	
Spectral band	8~14µm	
Pixel size	17µm	
Thermal sensivity (NETD)	40mK	
FOV	56° x 42°	
Frame rate	30Hz	
Measurement range	-20°C ~+550°C	
Measurement accuracy/Resolution	±2°C or ±2%	0.1°C
Color palettes	18	
Visible camera resolution	2MP, 1080P (1024x768)	
Image viewing modes	Thermal image, visible image, dual-spectrum fusion, DDE, and parallel display of visible light images are supported	
Video/Image format	MP4, JPG	
Internal memory	32GB, stores thermal & visible Images	
Connectivity protocols	ONVIF, GB28181, Modbus, TCP, MQTT	
LAN protocols	TCP, UDP, RTSP, HTTP, SMTP	
Internal interface	1 X M12 8 Pin RJ45 GBE to Switch or PC, 1 x M12 12 pin contains 1 x DC, 1x alarm input, 1 x alarm output, hotspot	
Online viewing + Remote acess	Web management interface via device hotspot http	
Alarm mode	I/O Alarms	
Alarm output	I/O output, image/video storage, file sending (FTP), E-mail (SMTP), flashing light alarm	
Power supply	12 ~ 30VDC / POE supported	
Environmental	IP67 water/dust rated, 2G Vibration	
Operating/Storage temp range	-10°C ~ 50°C	-40°C ~ 70°C
EMC	IEC 61000-4-2(anti-interference) IEC 61000-4-3(anti-radiation)	
Shock & Vibration	25G IEC68-2-29 ; 2G IEC68-2-6	
Certifications	CE/FCC/RoHS	
Dimension	109×55.9×29.5mm	

ONVIF

ONVIF is an open industry forum for interoperability of IP based physical security products allowing cameras to communicate with network recording devices or with each other.

Modbus protocol : STP1 supports modbus TCP protocol for transmitting temperature information.

Method of Installation : Install on back side of panel using screws, ensure contact with metal to dissipate heat on device.

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Quality Management System
ISO 9001: 2015
1-QSC202101102
IAS