TEMPSENS

Most Economic Online Thermal Camera

AST-LTE-80

Thermal imaging camera offers a broad range of applications across a number of different industries from automotive industry to fire prevention in industries, they provide an instant and contact less diagnosis of temperature.

Temperature Measurement with Spot Pyrometer

IR pyrometers measures infrared energy emitted from an object at a definite or exact spot. They are available in different variety with different optics which can meet a range of application.

Demerits of Portable pyrometers

1. Spot pyrometers can easily miss the critical problems as they can not scan entire devices or larger areas.
2. As we are offering thermal imaging cameras at most economic price so number of thermal imagers can be installed for different devices.
3. In case of portable pyrometer extra manpower is needed to continuously monitor installed devices and data collection. In case of thermal imager a fixed installations is done which can record all data and hence manpower requirement is reduced. This data can be used in future for analysis.

Pyrometers are reliable for single spot temperature measurement but in order to scan larger areas or components which are about to fail we need thermal imaging cameras.

Need of Thermal Imager

Most of industries or plants need to run continuously 24 hours a day, 365 days a year so in order produce faster, better and more efficient result at lower cost thermal imaging cameras are best option.

Thermal camera are the most economic option for identifying failures before they cause any catastrophe.

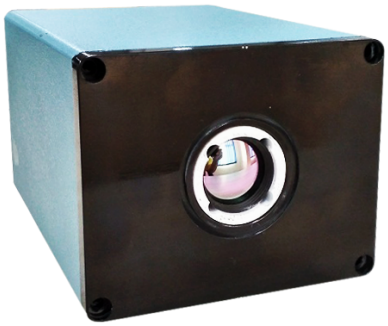
1. They can identify positions like where connections are unsecured.
2. Motor inspection
3. Insulation inspection
4. Internal damage in plants
5. Conveyors inspection

Industrial Thermography

In many manufacturing plants big containers operate at very high pressure and temperature. This makes them liable to the risk of failure. The results are undetected breakdown can be catastrophic - fire explosion and lose of life can occur. Multiple thermal cameras can be installed to observe faults, entire manufacturing industry. The thermal imager will send real time images to the control room, this data can be used for later comparison. Our applications software will provide lot of features and information.

Features

- More accuracy and security in every measurement
- High sensitivity of the system
- Temperature display
- Contrast adjustment
- Several lenses for different FOV
- Real time temperature measurement values

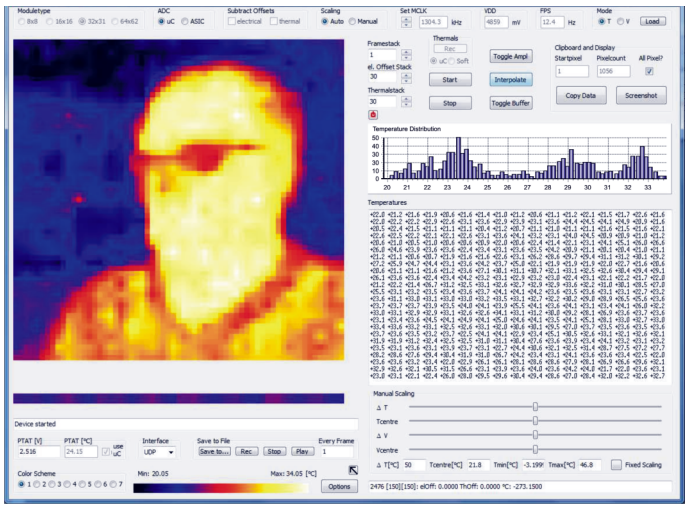


Technical Specification

Parameters	Value
Supply Voltage	5 V
Ambient temperature range	- 0 to 70°C
Object temperature range	- 20 to >1000 °C
Frame rate (full frame)	9 to 20 Hz
NETD (best optics)	150 mk@1Hz
Communication	Ethernet

Infraview

AST INFRAVIEW Software allows you to control the camera and record, view, manipulate and store the captured video / image as well as measured temperature data. This real time software allows simple and fast parameterization for documentation of the temperature data optimizing process control.

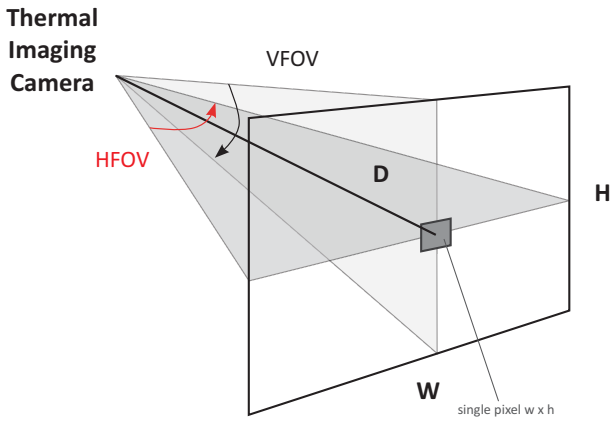


Fit for Purpose

Very high resolution is not always needed as we just need to identify faults. However the resolution offered by our thermal camera is good which is equivalent to using hundreds of pyrometer for monitoring larger areas.

We measure accurate temperature in extreme conditions

Optics Variants



HFOV = Horizontal Field of View
VFOV = Vertical Field of View
D = Measurement Distance
W = Image Width
H = Image Height

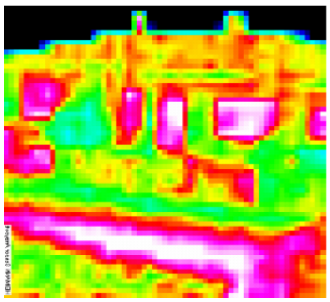
HFOV x VFOV	Dist. (m)	Width (m)	Height (m)	Pixel Size (mm)
88° x 70°	1 M	1.93	1.40	23.0
	5 M	9.66	7.00	114.9
	10 M	19.31	14.00	229.8
41° x 33°	1 M	0.75	0.59	9.3
	5 M	3.74	2.96	46.5
	10 M	7.48	5.92	93.0
39° x 31°	1 M	0.71	0.55	8.8
	5 M	3.54	2.77	43.8
	10 M	7.08	5.55	87.6
38° x 31°	1 M	0.69	0.55	8.6
	5 M	3.44	2.77	43.2
	10 M	6.89	5.55	86.4
18° x 14°	1 M	0.32	0.25	3.9
	5 M	1.58	1.23	19.5
	10 M	3.17	2.46	39.0

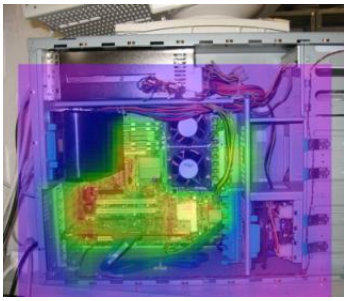
Available Optics

Optic	L5.0	L10	L10.5	L11[Si]	L22.5
FoV [°]	88 x 70	41 x 33	39 x 31	38 x 31	18 x 14

Application

- Cement Kiln
- Automotive Industry
- Electronic Industry
- Packing Industry
- Paper Industry
- Tobacco Industry
- Food Inspection
- Condition Monitoring
- Steel Ladle Monitoring
- Fire prevention
- Continuos monitoring of Electrical / Mechanical installation





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