

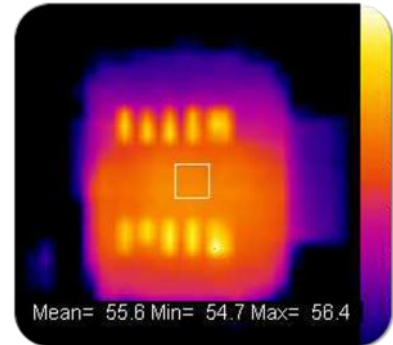
Welcome to Affordable Thermal Imaging

AXT100
THERMAL IMAGING CAMERA

AXT100 Fixed-Mount Thermal Infrared Imaging Camera MSRP \$4,995.00 USD



Shown Actual Size.



Thermal Image of an Electric Motor



Additional Images of a Flame, Man and Thermal Oven

Affordable. Networkable. Remarkable.

The AAS2 AXT100 Thermal Area Camera sets the bar high for true value and quality in radiometric thermal imaging. Specifically designed for industrial automation and inspection, it also finds an appropriate home in laboratory research and safety monitoring. Powerful image processing, rugged packaging, and flexible rigging options make this camera ideal for a host of applications.

The word that sets the AXT100 apart from all other IR cameras available is "independence". Due to a Linux embedded operating system powered by a Blackfin DSP, the Ann Arbor Sensor Systems AXT100 comes complete with an internal web server and TCP/IP protocols, allowing easy control and data collection over your LAN.

The AXT100 has plenty of power to process numerous high order functions normally requiring an external host computer. For example, the AXT100 can monitor up to eight different user-definable regions of interest, each with unique emissivity. You may then set a monitoring condition for each region which will trigger alarms when the condition is breached. You may also configure any of the eight regions independently with reliable closed-loop control wherein the camera can broadcast recommended heater levels through direct SCADA communication via MODBUS-TCP.

- ⇒ **One Year Fast-Turn Warranty Included** (Restrictions Apply)
- ⇒ **Thermal Imaging on Your Display in Minutes**
- ⇒ **10/100 Ethernet LAN Communication & Control**
- ⇒ **Easy Setup via Integrated Web Server**
- ⇒ **Control & Watch Video in Any Browser**
- ⇒ **Rugged Industrial Design - No Moving Parts**
- ⇒ **Power-over-Ethernet - One Wire for Power & Data**
- ⇒ **Universal Plug-n-Play - Easily Find Cameras on LAN**
- ⇒ **Easily Acquire Digital, Radiometric Data Remotely**
- ⇒ **Free SDK Tools - ActiveX/.NET/VB, Matlab, C, DLL, OPC, DDE & More**
- ⇒ **LabVIEW Drivers & Windows NEXUS Software** (free download)
- ⇒ **Active Pixel Matrix (APM) - Region-of-Interest Engine** (Optional firmware)
- ⇒ **SIFTA - Internal Thermal Alarms** (Optional firmware)
- ⇒ **ThermoP.I.D. - Integrated Closed-Loop Control** (Optional firmware)



Heat Treating



Forging



Research

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Shown Actual Size

1. Screw-Lock Power Jack
2. 10/100 Ethernet Port
3. BNC Composite Video Jack
4. S-Video Jack
5. TTL/CMOS V-Sync Trigger Input

Optional Accessories



The easy-to-install Air Purge Collar is designed to keep your lens clean in harsh environments. You will need to supply clean, dry air to the collar to complete the installation.



An additional lens can be ordered with your unit giving you the flexibility of a second field of view option without purchasing an entire camera. A lens change tool is supplied.
MSRP \$795.00 USD



The HDPE Washdown Window Kit keeps the camera's lens clean when used in environments with significant amounts of contaminants. The disposable poly windows can be applied and replaced with ease.
MSRP \$29.95 USD



The Multi-Mount Adapter Kit brings a variety of mounting options. Critical cable management becomes secure with this accessory.

Firmware Options (see separate brochure for details)



User-definable region of interest engine which also provides unique emissivity specification (8 regions).
MSRP \$295.00 USD



Allows for the setting of unique alarms to any region identified by the APM (8 channels).
MSRP \$195.00 USD



Adds unique closed-loop temperature control channels for any region defined within the APM (8 channels).
MSRP \$295.00 USD

Standards



Optical Specifications	
Focus	Manual
Spectral Range	7 to 14 μ m
Lens Options	22°, f/1.0 29°, f/0.8 Macro
Thermal Performance	
Measurement Range	22°, -20°C - 600°C (Hi-Temp: 800°C) 29°, -40°C - 400°C (Hi-Temp: 600°C)
Detector Technology	32x31 Thermopile UFPA
Maximum Frame Rate	9 Hz
Sensitivity (NETD)	200 mK @ 23°C, 3 Hz f/0.8
Accuracy	The Largest of +/- 2°, 2%
Network Specifications	
Protocol	RJ-45 10/100 Base-T (Fast Ethernet)
Detector Technology	IEEE 802.3af Compliant
Image Output	
Signals	Composite Video via BNC/RCA S-Video via S-Video Connector 16-bit Radiometric via Ethernet 8-bit JPEG Streaming via Ethernet
Analog Video Formats	NTSC and various PAL formats
Network Specifications	
Available Maps	
Environmental Specifications	
Operating Temperature	10°C - 55°C
Storage Temperature	-20°C - 80°C
Humidity	10% to 90% Non-Condensing
Power Specifications	
Voltage	12 to 24V DC
Draw	2.5 to 3W
Physical Specifications	
With Lens	1.9" h x 2.7" l w x 4.1" d, .065 lbs. 30mm h x 69mm w x 104mm d, 0.3kg
Without Lens	1.9" h x 2.7" l w x 2.5" d, .048 lbs. 30mm h x 69mm w x 64mm d, 0.2kg

All AXT products use original large-format thermopile array technology. Dubbed MYSTIKOS™, these detectors produce great images while reducing costs.

