

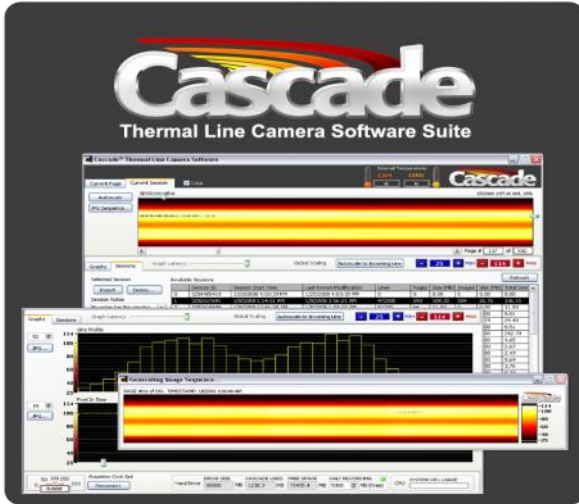
Welcome to Affordable Thermal Imaging

AXT110
THERMAL LINE CAMERA

AXT110 Fixed-Mount Thermal Infrared Line Camera

MSRP \$7,995.00 USD

Software Included



Shown Actual Size.

Complete. Reliable. Independent.

The AXT110 Thermal Line Camera sets the bar high for true value and quality in radiometric thermal imaging. Specifically designed for industrial automation and inspection, its high speed line imaging power clocks in at over 100Hz. Powerful image processing, rugged packaging, and flexible rigging options make this camera ideal for a host of applications. Unlike line scanners, the AXT110 has no moving parts to service or replace.

The word that sets the AXT110 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 AXT110 comes complete with an internal web server and TCP/IP protocols, allowing easy control and data collection over your LAN.

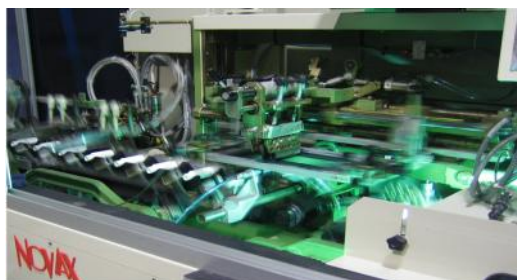
Every AXT110 unit has plenty of power to process numerous high order functions normally requiring an external host computer. For example, the AXT110 can monitor up to eight different user-definable zones of interest, each with unique emissivity. You may then set a monitoring condition for each zone which will trigger alarms when the condition is breached. You may also configure any of the eight zones independently with reliable closed-loop control wherein the camera can broadcast recommended heater levels through direct SCADA communication via MODBUS-TCP.



Injection Molding



Food Processing



Blow Molding

- ⇒ **One Year Fast-Turn Warranty Included** (Restrictions Apply)
- ⇒ **Thermal Imaging on Your Display in Minutes**
- ⇒ **10/100 Ethernet LAN Communication and Control**
- ⇒ **Easy Setup via Integrated Web Server**
- ⇒ **Control & View Data in Any Browser**
- ⇒ **Rugged Industrial Design - No Moving Parts**
- ⇒ **Power-over-Ethernet - One Wire for Power and 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 Cascade Software** (free download)
- ⇒ **Active Pixel Matrix (APM) - Region-of-Interest Engine** (Included firmware)
- ⇒ **SIFTA - Internal Thermal Alarms** (Included firmware)
- ⇒ **ThermoP.I.D. - Integrated Closed-Loop Control** (Included firmware)

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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
6. Power, Activity, Link LEDs

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 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 offers 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).
Included Option



Allows for the setting of unique alarms to any region identified by the APM (8 channels).
Included Option



Adds unique closed-loop temperature control channels for any region defined within the APM. (8 channels)
Included Option

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	32x1 Thermopile UFPA
Maximum Frame Rate	100 Hz
Sensitivity (NETD)	200 mK @ 23°C, 40 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.

