

AXT100

THERMAL INFRARED CAMERA

LITTLE CAMERAS SHOULD HAVE LITTLE PRICES.



The AXT100 Thermal Infrared Imaging Camera has been engineered from the ground up for industrial automation and inspection. Its very rugged and extraordinarily small form factor makes the AXT100 ideal for applications such as mold inspection, welding inspection, part cooling and injection molding to name a few.

UNDER THE HOOD

The AXT100 thermal imaging camera has been designed around a 32 x 32 uncooled thermopile focal plane array (FPA). Thermopile array technology is the basis for nearly all of the millions of low cost hand held non-contact temperature instruments and ear thermometers produced every year. The lower production cost is achieved through conventional CMOS processing and NO vacuum packaging of the FPA is required. This new breakthrough allows the AXT100 to be priced far lower than its competition.

HIGHLIGHTS

32 x 32 Uncooled Thermopile Focal Plane Array interpolated to 128 x 128

Composite video and SVGA outputs (NTSC/PAL formats)

Two manual focus lens options 24° f/0.8 or 18° f/1.0

Digital Output/Control through RJ-45 10/100 BASE-T Ethernet

Extraordinarily small size and lightweight

Analog Devices Blackfin® 531 DSP processor core

PROCESSING FOR PERFECTION

On board image processing interpolates and smoothes the 32 x 32 image to 128 x 128 resolution. Moreover, with the many advanced signal processing features such as false color, image storage, contrast and brightness adjustment, the AXT100 is easy to install and use. Digital control is accomplished from the 10/100 BASE-T Ethernet port. An additional feature on the AXT100 is a digital input port that triggers the camera to take and store imagery into the internal memory for later use.

THE INS AND OUTS

The AXT100 was designed to provide flexible video output. Standard composite video (C-video) along with a SVGA port can be configured for NTSC or PAL operation for easy interface into portable recording equipment such as camcorders. Of course 16 bit digital data is available from either the Ethernet port or USB 2.0 port (USB future option).

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These are only a few of the many applications for the AXT100 Infrared Camera.



SURVEILLANCE BUILDING INSPECTION FIREFIGHTING

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SPECIFICATIONS

Thermal Performance

Measurement Range: -20°C to 500°C
Detector Technology: 32 x 32 Thermopile FPA
NETD (Noise Equivalent Temperature Difference):
0.3°C @ 23°C, 8Hz, f/0.8

Optical Specifications

Lens Options: 24° f/0.8, or 18° f/1.0
Focusing: Manual
Spectral Range: 7 - 14µm

Image Output

C-Video and SVGA (NTSC/PAL formats)
16 Bit Digital

Interface

RJ-45 10/100 BASE-T Ethernet

Environmental

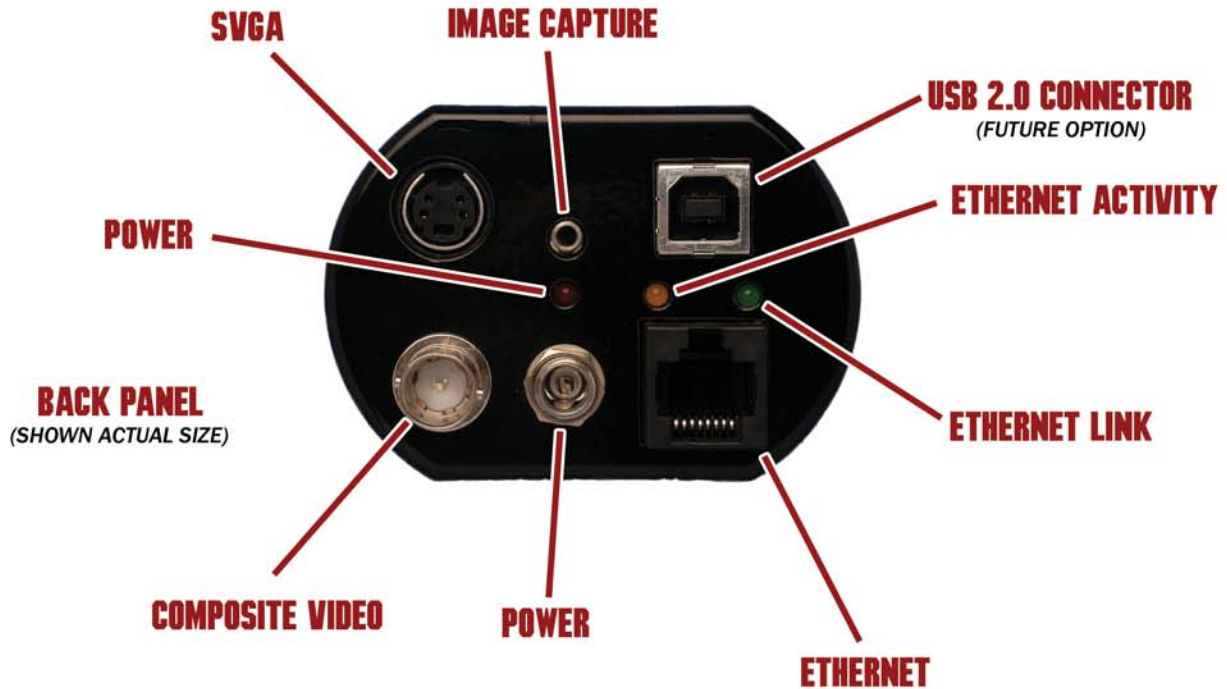
Operating Temperature: -10°C to 55°C
Storage Temperature: -20°C to 80°C
Humidity: 10% to 90% non-condensing

Power Source

Voltage: 7.5V DC Power Consumption: 2.5W

Physical

With lens: 1.9”h x 2.7”w x 4.1”d, 0.65 lbs.
Without lens: 1.9”h x 2.7”w x 2.5”d, 0.48 lbs.



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