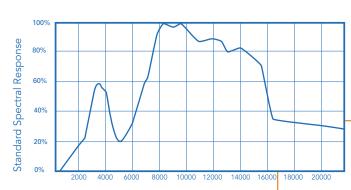
(**Electro** physics

PV320A

THERMAL IMAGING CAMERA



Shown with optional 35mm lens

(lens not included)

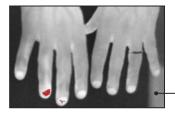




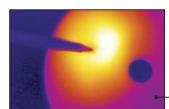
Machine Vision



Night Vision



Medical Thermal Imaging



NDT

The PV320A is a low-cost thermal camera incorporating a high resolution (320x240) uncooled focal plane array and advanced features including a USB 2.0 high-speed digital output and automatic ambient temperature compensation (AATC). With over 76,000 pixels and 0.08°C (32.144°F) sensitivity, the PV320A provides superior image quality at a very affordable cost.

Operate the PV320A as a standalone, video-based system with on-camera controls, or interface the camera with Velocity Advanced, our powerful real-time image acquisition and analysis software application. Connect the camera to any USB 2.0-enabled PC platform and run Velocity Basic, and display real-time images on any PC and control the camera remotely. The compact PV320A in its rugged, all-metal, alloy chassis is currently in operation in many demanding applications around the world.

PV320 @

FEATURES

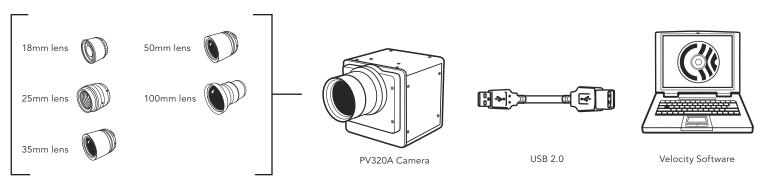
- Low cost
- 320x240 uncooled focal plane array
- Automatic Normalization Process
- USB 2.0 High-Speed Serial Output
- 0.08°C Sensitivity (32.144°F)
- Automatic ambient temperature compensation
- Real-time software availability
- Interchangeable lens mount with wide selection of optics offered

BENEFITS

- Makes infrared imaging affordable for many new applications
- Great image quality with fine spatial detail
- Continuous normalization reduces requirement for non-uniformity
- Interface to a wide range of PC types
- Visualize minute temperature variations
- Camera can operate in a wide range of ambient temperatures
- Collect and analyze images easily
- Optimize the camera system for many different applications

INFRARED IMAGING SYSTEMS

PV320A THERMAL IMAGING CAMERA



SPECIFICATIONS			
Sensor	Uncooled BST	Internal/External	Included
Spectral Response	2–14µm	Synchronization	
Pixel Size	48.5 x 48.5μm	Power Consumption	<10 watts nominal
Thermal Sensitivity	0.08°C (32.144°F)	Camera Control	USB 2.0
Resolution	320x240 pixels	Video Output Connector	BNC
-	<u> </u>	Real-time Digital Output	USB 2.0 High Speed
Lenses	Optional (see ordering information below)	Connector	
Video Palettes (in camera)	4 color, 2 grayscale	On-camera Control	4-button panel, on/off
Zoom (in camera)	2x	Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Real-time Digital Output	USB 2.0	Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Video Output	NTSC (PAL optional)	Humidity	0 to 95% non-condensing
Voltage	12 VDC on 2.5mm power slug 110–240 VAC / 50–60Hz on included	Tripod Mount	1/4"to 20 TPI
	AC power supply	Lens Mount	2"to 32 TPI
Dynamic Range	12 bits	Size (LxWxH)	14 x 11.4 x 11.4 cm
Frame Rate	30Hz: PV320A	Weight w/o Lens	1.2kg (3 lb.)
	25Hz: PV320AE		

ORDERING INFORMATION			
ITEM	PART NO.	DESCRIPTION	
PV320A (NTSC)	914333	Includes 60Hz camera and power supply	
PV320AE (PAL)	914334	Includes 50Hz camera and power supply	
18mm Wide-angle Objective Lens	901000	Manual focus lens with 50° x 38° H x V, F1.0, no iris	
25mm Wide-angle Objective Lens	901001	Manual focus lens with $36^{\circ} \times 27^{\circ} \text{ H} \times \text{V}$, F1.0, no iris	
35mm Wide-angle Objective Lens	914366	Manual focus lens with 25° x 19° H x V, F1.0, no iris	
50mm Wide-angle Objective Lens	901003	Manual focus lens with 18° x 13° H x V, F1.0, adjustable iris	
100mm Telephoto Objective Lens	901008	Manual focus lens with 9° x 7° H x V, F1.0, no iris	
Velocity Software-Basic	914376		
Velocity Software-Advanced	914377		
Velocity Software-Toolkit VB	914381		
Velocity Software-Toolkit C++	914380		
Carrying Case	914384		

Because of ongoing product enhancements, specifications are subject to change without notice.

Export of this product is controlled by the US Government. Prior authorization is required for re-export or transfer

Contact us today to discuss how the PV320A can meet your application requirements.

