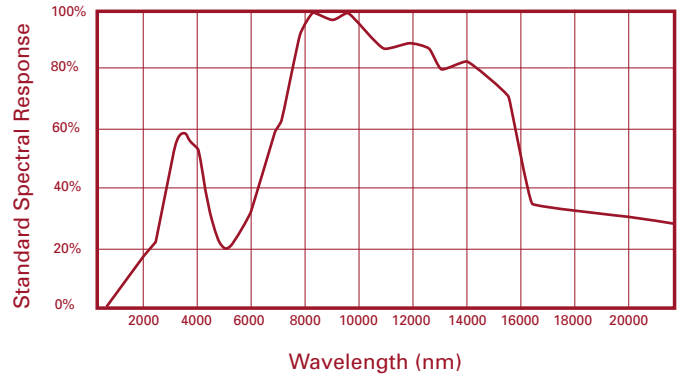


# PV320T

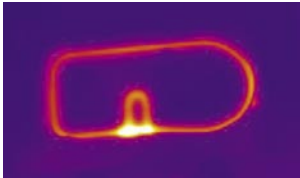


## PV320T

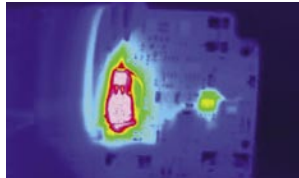
Electrophysics' PV320T is a calibrated thermal camera incorporating a high resolution (320x240) uncooled focal plane array and advanced features including a USB 2.0 high-speed digital output and automatic image calibration (AIC). The PV320T delivers accurate object temperature measurement up to 500°C and excellent image quality.

Operate the PV320T as a stand-alone video-based system with on-camera controls or interface the camera with Velocity Radiometric, 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 PV320T in its rugged all-metal alloy chassis is currently in operation in many demanding applications around the world.



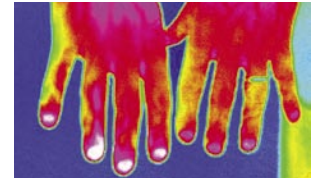
Test and Measurement



Research and Development



Machine Vision



Medical Imaging

### Features

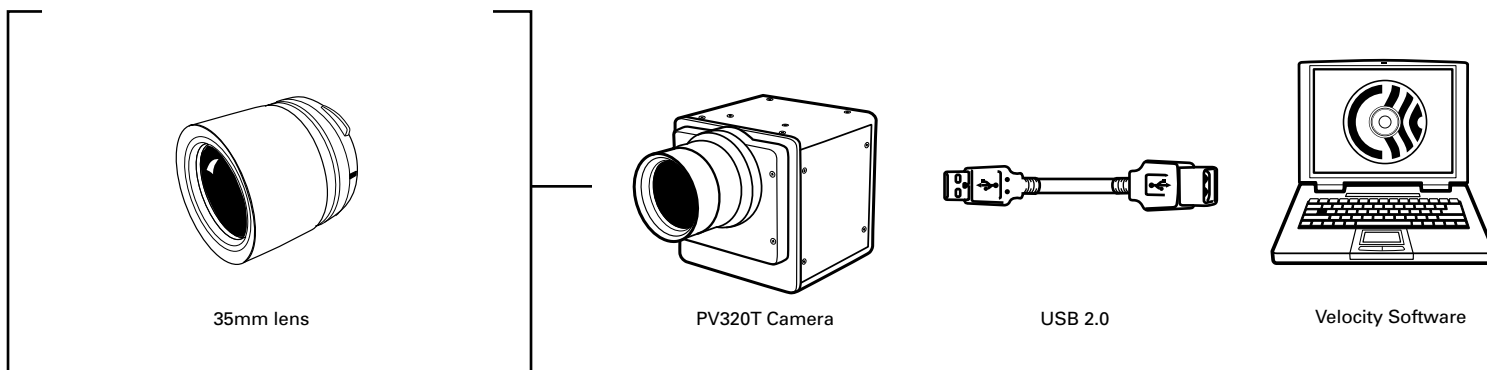
- -10° to 500° C calibration
- 2% accuracy
- USB 2.0 High-Speed Serial Output
- 0.08°C Sensitivity
- Broadband (3µm-14µm) Imaging Option
- Real-time software support

### Benefits

- Broadest requirements can be met
- Make intelligent decisions based on object temperatures
- Eliminates frame grabbers
- See fine thermal details
- Flexibility to image various light sources
- Application specific software packages

## SPECIFICATIONS

Sensor	Uncooled BST	Internal/External Synchronization	Included
Resolution	320 x 240 pixels	Voltage	12 VDC on 2.5mm power plug
Pixel Size	48.5 x 48.5µm		110-240 VAC/50-60 Hz on included power supply
Thermal Sensitivity	0.08°C		
Detector Type/Spectral Response	7–14µm PV320T 3–14µm PV320T-BB	Power Consumption	<10 watts nominal
Focus	Manual	Camera Control	USB 2.0
Video Palettes (in camera)	4 color, 2 grayscale	Video Output Connector	BNC
Zoom (in camera)	2x	Real Time Digital Output Connector	USB 2.0 High Speed
Real Time Digital Output	USB 2.0	On Camera Control	4-button panel, on/off
Video Output	NTSC (PAL optional)	Power	2.5mm DC power plug
Object Temperature Range	-20° to 500°C	Operating Temperature	0° to 50°C
Emissivity Adjustment	Variable from 0.1 to 1	Storage Temperature	-20° to 60°C
Correction Measurement	Reflected ambient, ambient temp & lens temp	Humidity	0 – 95% non-condensing
Dynamic Range	12 bits	Dimensions	14cm (L) x 11.4cm (W) x 11.4cm (H)
Frame Rate	30 Hz PV320T 25 Hz PV320TE	Weight	1.2kg (3lbs)
		Tripod Mount	1/4" 20 TPI



## ORDERING INFO

ITEM	PART NUMBER	DESCRIPTION
PV320T (NTSC)	914339	Includes 60 Hz camera with 35 mm lens and AC power supply
PV320TE (PAL)	914340	Includes 50 Hz camera with 35 mm lens and AC power supply
PV320T-BB (NTSC)	914447	Same as PV320T except with lens coated 3-12 microns
PV320TE-BB (PAL)	914448	Same as PV320TE except with lens coated 3-12 microns
Velocity Software – Basic	914376	
Velocity Software – Advanced	914377	
Velocity Software – Radiometric	914378	
Velocity Software Toolkit VB	914381	
Velocity Software Toolkit C++	914380	
Velocity Software Toolkit LabView	914379	
Carrying Case	914384	