

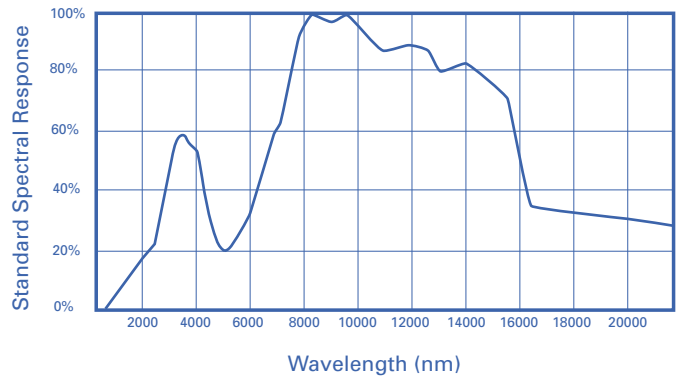
PV320L



PV320L shown with 35mm objective lens

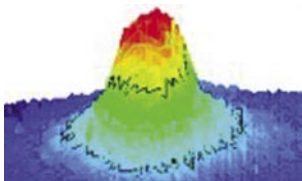
PV320L

Electrophysics' PV320L infrared camera incorporates a high resolution (320x240) uncooled focal plane array and advanced features including a USB 2.0 high-speed digital output and internal automatic image calibration (AIC). An optional ZnSe non-fringing detector window provides a broadband (0.6-20 microns) spectral response and is ideal for a wide range of laser beam analysis or other broadband spectroscopy applications.



Operate the PV320L as a stand-alone 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.

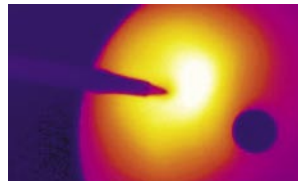
The compact PV320L in its rugged all-metal alloy chassis is currently in operation in many demanding applications around the world.



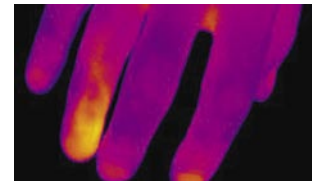
Laser Beam Profiling



Night Vision



NDT



Medical Imaging

Features

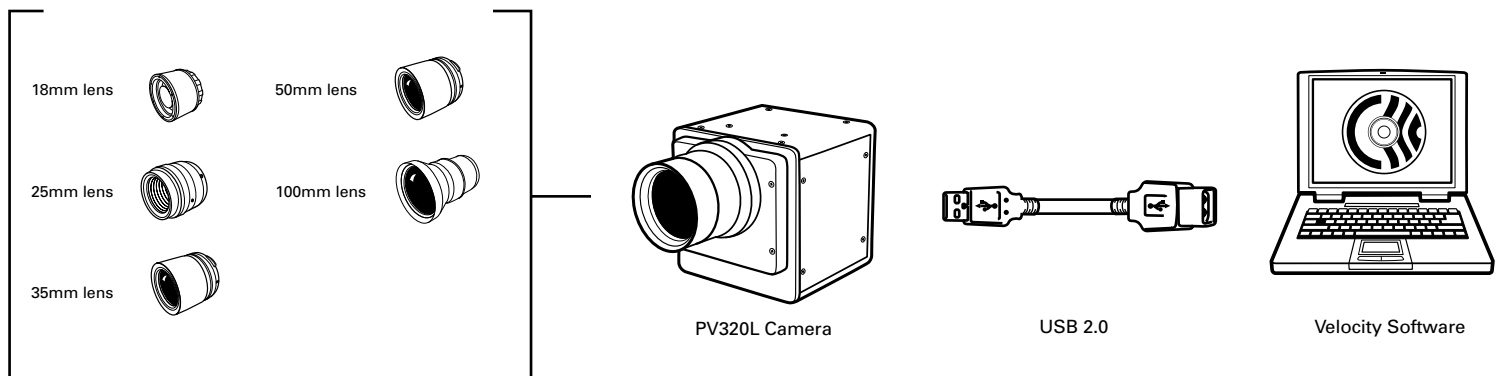
- 320x240 uncooled focal plane array
- Automatic Image Calibration (AIC)
- USB 2.0 High-Speed Serial Output
- 0.08°C Sensitivity
- Broadband (0.6µm-20µm) Imaging Option
- Real-time software availability
- Interchangeable lens mount with wide selection of optics offered

Benefits

- Great image quality with fine spatial detail
- Continuous normalization reduces requirement for nonuniformity correction
- Interface to a wide range of PC types
- Visualize minute temperature variations
- Only broadband uncooled camera available
- Collect and analyze images easily
- Optimize the camera system for many different applications

SPECIFICATIONS

Sensor	Uncooled BST	Frame Rate	30 Hz PV320L, PV320LZ 25 Hz PV320LE, PV320LZE
Resolution	320 x 240 pixels	Power Consumption	<10 watts nominal
Pixel Size	48.5 x 48.5µm	Camera Control	USB 2.0
Thermal Sensitivity	0.08°C	Video Output Connector	BNC
Spectral Response	2-14µm PV320L, PV320LE 0.6-20µm PV320LZ, PV320LZE	Real Time Digital Output Connector	USB 2.0 High Speed
Lenses	Optional (See Ordering Info.)	On Camera Control	4-button panel, on/off
Video Palettes (in camera)	4 color, 2 grayscale	Operating Temperature	-20° to 50°C
Zoom (in camera)	2x	Storage Temperature	-20° to 60°C
Real Time Digital Output	USB 2.0	Humidity	0 – 95% non-condensing
Video Output	NTSC (PAL optional)	Dimensions	14cm (L) x 11.4cm (W) x 11.4cm (H)
Voltage	12 VDC on 2.5mm power plug 110 -240 VAC/ 50-60HZ on included AC power supply	Weight	1.2kg (3 lbs)
Dynamic Range	12 bits	Tripod mount	1/4" – 20
		Lens Mount	2" – 32 TPI



ORDERING INFO

ITEM	PART NUMBER	DESCRIPTION
PV320L (NTSC)	914331	Includes 60 Hz camera with 2-14µm response and power supply
PV320LE (PAL)	914335	Includes 50 Hz camera with 2-14µm response and power supply
PV320LZ (NTSC)	914336	Includes 60 Hz camera with 0.6-20µm response and power supply
PV320LZE (PAL)	914332	Includes 50 Hz camera with 0.6-20µm response and power supply
Velocity Software-Basic	914376	
Velocity Software-Advanced	914377	
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° x 27° H x V, F1.0, no iris
35mm Objective Lens (coated 8-12 microns)	914366	Manual focus lens with 25° x 19° H x V, F1.0, no iris
35mm Broadband Objective Lens (coated 3-12 microns)	914451	Manual focus lens with 25° x 19° H x V, F1.0, no iris
50mm Objective Lens (coated 8-12 microns)	901003	Manual focus lens with 18° x 13° H x V, F1.0, adjustable iris
50mm Broadband Objective Lens (coated 3-12 microns)	914161	Manual focus lens with 18° x 13° H x V, F1.0, adjustable iris
100mm Telephoto Lens	901008	Manual focus lens with 9° x 7° H x V, F1.0, no iris
Carrying Case	914384	
Extension Tube, 25mm	914193	
C-mount Adapter	914122	