

Model 320

Radiometric Infrared Camera



Fast, Rugged, Simple

The 320 is a radiometric, real-time, thermal imaging camera. Based on amorphous silicon micro-bolometer technology, the 320 produces quality video while requiring little power and no cryogenic cooling. Combined with a personal computer (not included) and camera control software (included), the 320 allows for simple image capture, thermal analysis, and image storage. This camera produces remarkable images using a 320x240 element focal plane array detector. Pixel interpolation (resulting in 640x480 pixel resolution) and frame averaging can be enabled to further enhance images.



Compix 320 camera

Applications:

- Thermal analysis
- Process control
- Temperature screening
- Reliability testing
- Remote monitoring/Alarm systems

Features:

- Realtime display
- Weighs less than 2lbs.
- Compact, rugged
- weather-proof option

For current product information please visit <http://www.compix.com/320.htm>.

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Technical specifications¹:

Imaging Performance	
Temperature range	0° C to 150° C (32° F to 302° F) 0° C to 250° C (32° F to 482° F) high temperature option 0° C to 550° C (32° F to 1022° F) extended temperature option
Measurement accuracy	± 2° C or ± 3% of temperature range, whichever is greater
Long term stability	< ± 1° C (± 1.8° F) drift over 1 year
Ambient correction	Automatic
Detector	
Focal Plane Array	Amorphous Silicon microbolometer
Pixels	320 x 240; Interpolated to 640 x 480
Spectral Response	7-14 microns
Thermal Sensitivity	Better than 100mK
Image	
Real time display	8 bit grayscale
Captured image	16 bit
Display color	User selectable color and grayscale colormaps
Requirements	
Power Source	95-225 VAC, 45-65 Hz
AC to DC converter	12 VDC, minimum of 3 Watts continuous, 1 Ampere surge at start-up.
Personal Computer	IBM compatible, Windows XP or Windows Vista, an available USB port.
Environmental characteristics	
Operating Temperature	18° C to 30° C (64° F to 86° F)
Reduced accuracy	0° C to 60° C (32° F to 140° F)
Storage temperature	-40° C to 80° C (-40° F to 176° F)
Physical characteristics	
Enclosure	Cast Aluminum, sealed, 1/4-20 mount
Overall dimensions (HxWxD)	12cm x 19cm x 14cm (4.7" x 7.5" x 5.5")
Weight	1.7kg (3.7 lbs)
Calibration	
Recommended interval	1 year
Optics	
Field of view	50° x 37.5° 25° x 19° 12° x 9° 6° x 4.5°
Focus range	30cm to ∞ 1m to ∞
Standard accessories	
Camera stand	Tripod or tabletop
Power supply	AC to DC adapter
Software	WinTES2 camera control and analysis software.
Manual	Operator's manual.
Cables	USB A to B, AC cable for power supply

Ordering information:

- 17-0320-6** – Compix 320 Radiometric Camera with 6° x 4.5° field of view.
- 17-0320-12** – Compix 320 Radiometric Camera with 12° x 9° field of view.
- 17-0320-25** – Compix 320 Radiometric Camera with 25° x 19° field of view.
- 17-0320-50** – Compix 320 Radiometric Camera with 50° x 37.5° field of view.

¹ All specifications subject to change without notice.