

Model 221

Radiometric Infrared Camera



Fast, Rugged, Simple

The 221 is a radiometric, realtime, thermal imaging camera. Based on amorphous silicon micro-bolometer technology, the 221 produces quality video while requiring little power and no cryogenic cooling. Combined with a personal computer (not included) and camera control software (included), the 221 allows for simple image capture, thermal analysis, and image storage. This camera produces remarkable images using a 160x120 element focal plane array detector.



Compix 221 camera

Applications:

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

Features:

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

For current product information please visit <http://www.compix.com/221.html>.

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Technical Specifications¹:

Imaging Performance	
Temperature range	0° C to 550° C (32° F to 1020° F)
Measurement accuracy	< ± 2% of indicated temperature
Long term stability	< ± 1° C (± 1.8° F) drift over 1 year
Ambient correction	Automatic
Detector	
Focal Plane Array	Amorphous Silicon μ bolometer
Pixels	160 x 120
Spectral Response	7-14 microns
Thermal Sensitivity	Better than 100mK
Display	
Dynamic range	16 bit
Displayed image	16 bit
Display Color	User selectable color and grayscale colormaps
Requirements	
Power Source	95-225 VAC, 45-65 Hz
Battery / external DC option ²	6-32 VDC, minimum of 3 Watts continuous, 1 Ampere for a short time at start-up.
Personal Computer	Minimum of one available USB port with Windows 2000, or XP operating system.
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	
Focal length	8.5mm, 16mm, 25mm
Field of view	32° x 24°, 17° x 12°, 11° x 8°
Focus method	Manual
Standard accessories	
Camera stand	Folding tripod stand or desktop stand
Software	WinTES2 camera control and analysis software.
Manual	Operator's manual.

Ordering information:

17-0221-n – Camera with optics configuration 1 and standard accessories.

17-0221-w – Camera with optics configuration 2 and standard accessories.

¹ All specifications subject to change without notice.

² Camera requirements only, does not include computer or monitor.