

# Model 220

Radiometric Infrared Camera



## Fast, Rugged, Simple

The 220 is a radiometric, real-time, thermal imaging camera. Based on amorphous silicon micro-bolometer technology, the 220 produces quality video while requiring little power and no cryogenic cooling. Combined with a personal computer (not included) and camera control software (included), the 220 allows for simple image capture, thermal analysis, and image storage. This camera produces remarkable images using a 160x120 element focal plane array detector. Pixel interpolation (resulting in 320x240 pixel resolution) and frame averaging can be enabled to further enhance images.



**Compix 220 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/220.htm>.

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Radiometric Infrared Camera



## Technical specifications<sup>1</sup>:

<b>Imaging Performance</b>		
Temperature range	0° C to 150° C (32° F to 300° F)	
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	
<b>Detector</b>		
Focal Plane Array	Amorphous Silicon microbolometer	
Pixels	160 x 120; Interpolated to 320 x 240	
Spectral Response	7-14 microns	
Thermal Sensitivity	Better than 100mK	
<b>Display</b>		
Dynamic range	12 bit	
Displayed image	8 bit	
Display color	User selectable color and grayscale colormaps	
<b>Requirements</b>		
Power Source	95-225 VAC, 45-65 Hz	
Battery / external DC option <sup>2</sup>	6-32 VDC, minimum of 3 Watts continuous, 1 Ampere for a short time at start-up.	
Personal Computer	Minimum of one available PCI slot or PC Card (PCMCIA) slot with Windows 98, 2000, or XP operating system.	
<b>Environmental characteristics</b>		
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)	
<b>Physical characteristics</b>		
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)	
<b>Calibration</b>		
Recommended interval	2 years	
<b>Optics</b>		
	<b>n</b>	<b>w</b>
Focal length	25mm (1")	8.5mm (0.3")
Field of view	17° H x 12° V	50° H x 35° V
Focus range	30cm to infinity (1' to infinity)	1m to infinity (39" to infinity)
<b>Standard accessories</b>		
Camera stand		
Video capture card	PCI card or PC Card module, depending on host computer type.	
Software	WinTES2 camera control and analysis software.	
Manual	Operator's manual.	
Camera to video capture cable	Coaxial with BNC terminations on both ends.	

## Ordering information:

**17-0220-n** – Camera with optics configuration 1 and standard accessories.

**17-0220-w** – Camera with optics configuration 2 and standard accessories.

<sup>1</sup> All specifications subject to change without notice.

<sup>2</sup> Camera requirements only, does not include computer or monitor.