

Model 222

Radiometric Infrared Camera



Fast, Rugged, Simple

The 222 is a radiometric, real-time, thermal imaging camera. Based on amorphous silicon micro-bolometer technology, the 222 produces quality video while requiring little power and no cryogenic cooling. Combined with a personal computer (not included) and camera control software (included), the 222 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 222 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/222.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	160 x 120; Interpolated to 320 x 240				
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	100-240 VAC, 47-63 Hz				
AC to DC converter	5 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)				
Oper.Temp., reduced accuracy	0° C to 18° C (32° F to 64° F), 30° C to 60° C (86° F to 140° F) See Note 2				
Storage temperature	-30° C to 80° C (-22° 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	25mm	16mm	11mm	8.5mm	5.8mm
Field of view	11° x 8°	17° x 12°	25° x 18°	32° x 24°	50° x 37°
Focus range	30cm to ∞				1m to ∞
Standard accessories					
Camera stand					
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:

- 17-0222-11** – Compix 222 Radiometric Camera with 11° x 8° field of view.
- 17-0222-17** – Compix 222 Radiometric Camera with 17° x 12° field of view.
- 17-0222-25** – Compix 222 Radiometric Camera with 25° x 18° field of view.
- 17-0222-32** – Compix 222 Radiometric Camera with 32° x 24° field of view.
- 17-0222-50** – Compix 222 Radiometric Camera with 50° x 37° field of view.

Note 1: All specifications subject to change without notice.

Note 2: Power supply must not be operated in an environment above 40°C.