

The ThermaCAM BX320 gives four times the resolution of any IR camera in its size and price range – providing the building industry with the most accurate tool for diagnosing building conditions, and even detecting energy inefficiencies, with confidence.

- > Robust Post Processing Capabilities
- > Interchangeable Optics
- > Built-in Laser LocatIR[™]
- > Highly Portable 1.76 lb
- > One-touch Digital Zoom 2x 4x
- > Dew Point & Color Alarm Feature
- > 320 x 240 Pixel Array Provides 4x Resolution
- > High Thermal Sensitivity for Optimal Accuracy

Best Image Quality

The BX320 features the highest resolution and image quality available in a handheld infrared camera. The built-in 320 x 240 pixel array provides 76,800 picture elements in each image – for unsurpassed image clarity – highlighting even small intricate targets in fine detail.

One-touch Digital Zoom

The BX320 boasts a built-in, one-touch digital zoom, to magnify targets without any loss of image clarity.

Most Accurate Temperature Measurement

The BX320 is the most accurate lightweight, handheld IR camera on the market today. Using the world's best infrared detector material, vanadium oxide, the BX320 sees temperature differences as small as 0.08°C and provides 76,800 picture elements in each image.

Lightweight, Rugged & Ergonomic

The BX320 is built tough for hard work in the field and in all weather conditions and industrial environments — a critical design capability. Dust and splash proof, the BX320 meets IP 54 standards. Unlike other cameras that might be “lab calibrated,” the BX320 won't seize-up in freezing cold, extreme heat or other harsh conditions. Its exclusive Ambient Temperature Compensation (ATC) technology assures accuracy under the most challenging ambient temperature conditions.

Download and Document

Download thermal images with measurements to your PC quickly with ThermaCAM QuickView[™] software and standard USB or serial cables. Document your findings simply by inserting the JPEG images into your favorite word processing program.

Flexible JPEG Image Storage with Post Processing

Store and recall more than 80 calibrated thermal images using the camera's on-board memory. The BX320's radiometric JPEG image format allows you to go back to any image at any time to add and move spots, measure temperatures, and perform analysis you may have missed in the field.

View Sensitive Thermal Images

A maintenance-free, state-of-the-art uncooled FPA infrared detector produces crisp thermal images that reveal subtle temperature variations that can signal electro-mechanical problems. The BX320 can detect problems before they become critical, helping you increase safety, reduce production downtime, and eliminate potential fires.

Automatic Dew Point Identification Alarm

Identifies potential condensation areas where mold might occur with visible and audible alarm options. The dew point is calculated in real time as a function of air temperature and relative humidity in the room and indicates potential surfaces in the room on which condensation will occur.

Pinpoint Problems with Precision

The built-in Laser LocatIR[™] projects a bright red dot on the target that enables you to associate the IR image with the real physical target. This feature enables the visual location of areas of thermal contrast that can't be seen with the naked eye.

Interchangeable Optics

BX320 optional lenses are; telescopic – ideal for inspecting distant targets such as tall structures, and wide-angle – more than doubles the standard field-of-view, for evaluating large objects from a short distance, such as roofs and interior/exterior walls.

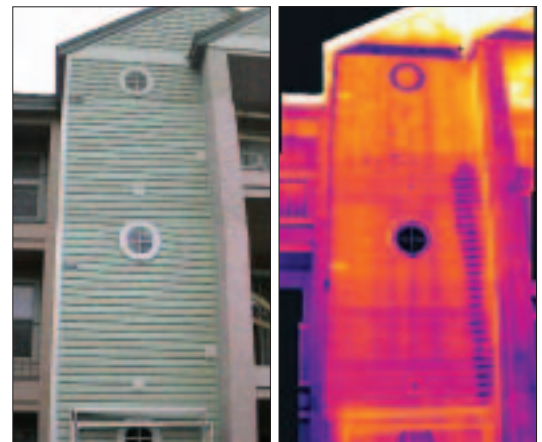
Smart Power Management

Lightweight, longlife Li-Ion batteries assure uninterrupted inspections. The BX320 includes an external 2-bay battery charger and an internal battery charger. A 12 VDC car/truck charger adapter is also available.

ThermaCAM® BX320 Technical Specifications

Imaging Performance	
Field of view/min focus distance	Interchangeable; 25° x 19° (standard), 15° x 11° or 45° x 36°
Thermal sensitivity (N.E.T.D)	< 0.08° C at 25° C
Detector type	Focal Plane Array (FPA), uncooled Vanadium Oxide micro bolometer, 320 x 240 pixels
Spectral range	7.5 to 13 µm
Digital zoom	1x,2x,4x
Spot size ratio (with 15° lens)	405:1
Image Presentation	
Display	Color LCD, 320 x 240 pixels in IR image
Image Controls	Palettes (Iron, Rainbow, RainbowHC, B/W, B/W inv), Level, Span, Auto adjust (continuous/manual) and semi-automatic
Measurement	
Temperature range	-20° C to +100° C (-4° F to +212° F)
Accuracy	± 2° C (±3.6° F) or ± 2% of absolute temperature in °C
Measurement modes	3 movable spots, area max, area min, area average, temp difference, color alarm above or below
Dew point alarm	Color or audible alarm
Set-up controls	Date/time, Temperature units °C/°F, Language (English, Spanish), Scale, Info field, LCD intensity (high/normal/low)
Measurement corrections	Reflected ambient. Automatic, based on user-input
Image Storage	
Digital storage functions	Freeze, Store, Standard Calibrated JPEG images, Delete all images, Delete image, Open
Image storage capacity	More than 80 Calibrated JPEG Images with image gallery
Text annotation of images	Predefined text selected and stored together with image
Laser LocatIR™	
Classification	Class 2
Type	Semiconductor AlGaInP Diode Laser: 1mW/635 nm (red)
Power Source	
Battery type	Li-Ion; rechargeable, field replaceable (2)
Battery operating time	2 hours. Display shows battery status
Battery charging	In camera, AC adapter or 12V from car with optional 12V cable. 2 bay intelligent charger (included)
AC operation	AC adapter, 90-260VAC, 25/30 Hz/12VDC out
Voltage	11 to 16VDC
Power saving	Automatic shutdown and sleep mode (user-selectable)
Environmental	
Operating temperature range	-15 °C to +45 °C (5 °F to 113 °F)
Storage temperature range	-40 °C to +70 °C (-40 °F to 158 °F)
Humidity	Operating and storage 20% to 80%, non-condensing, IEC 359
Water and dust resistant (encapsulation)	IP 54
Shock	25g, IEC 68-2-29
Vibration	2g, IEC 68-2-6
Physical Characteristics	
Weight	0.8 kg (1.76 lb.), including battery and 25° lens
Size (L x W x H)	272mm x 80mm x 105mm (10.7" x 3.2" x 4.1") with 25° lens
Color	Titanium grey
Tripod mounting	Standard, 1/4" - 20
Interfaces	
USB (cable included)	Image and text transfer to PC
Video output	NTSC, standard RCA composite video
Software	
ThermaCAM® QuickView Software (included), Compatible with ThermaCAM® Reporter, Microsoft® Office Suite	

Camera includes:	
IR camera	
Ruggedized transport case	
Built-in Laser LocatIR™	
Power supply and cord	
Hand strap	
Lens cap	
ThermaCAM® QuickView™ software	
USB cable	
Video-out cable	
User manual (multilingual)	
Battery (2)	
2-Bay battery charger	
Training CD	
Interchangeable lenses (optional)	
2X Telescope (15° X 11°/0.5m)	
0.5X Wide angle (45° X 36°/0.2m)	



The thermogram of this vinyl-sided 3-floor apartment house clearly shows the path of a serious leak, which is completely hidden within the wall, from a washing machine on the third floor.

