



The ThermaCAM[®] B2 infrared camera offers a non-invasive means of monitoring and diagnosing the conditions of buildings – providing immediate high-resolution thermal imagery, revealing potential structural and moisture issues, energy efficiency and even rodent or pest discovery.

- > Affordable & Ultra-compact
- > Crisp, High-quality Images
- > Dew Point & Color Alarm Feature
- > Bright 2.5" Color LCD
- > Built-in Laser LocatIRTM
- > JPEG Image Storage
- > Download Images Easily to a PC
- > Interchangeable Lenses

Interchangeable Lenses

The B2 features interchangeable optics for added flexibility. The standard 34° lens is ideal for evaluating large objects like walls and ceilings from a short distance, while optional 19° and 9° lenses enable focusing in on distant targets that may be harder to physically access.

Find Problems Fast

Monitor and diagnose the condition of buildings quickly and view crisp thermal images on the bright 2.5" color LCD. Highlight and analyze problems, store images and document results.

Measure and Evaluate Problems

Accurate temperature measurement enables you to identify and analyze problems quickly and with assurance. Detect temperature abnormalities instantly with color alarm feature.

Rugged, Ergonomic & Lightweight

Hold in your hand, clip to your belt or place in your toolbox—the B2 weighs just 1.5 lbs. It is the lightest IR and thermal imaging storage camera in the world. Dust and splash proof, the B2 meets IP 54 standards and withstands harsh industrial environments.

Flexible JPEG Image Storage

Store and recall up to 200 radiometric JPEG images in the camera's on-board memory. Recall, analyze and share your findings with others in the field using the camera's LCD or plug into an NTSC monitor.

Pinpoint Problems with Precision

The built-in Laser LocatIRTM quickly helps you associate the hot spot on the IR image with the real physical target. This feature greatly enhances the ability to target inconsistencies.

Custom Labeling Feature

Custom labeling allows you to save a location name or frequently used comments with an image. Examples, "kitchen", "attic", "basement", "needs repair," and more.

View Sensitive Thermal Images

A maintenance-free, state-of-the-art uncooled FPA infrared detector produces highly accurate thermal images that allow you to detect subtle temperature variations that can signal moisture content in building materials.

Download and Document

Download thermal images to your PC quickly with QuickViewTM software and standard USB or serial cables. Document your findings simply by inserting JPEGs into your favorite word processing programs.

Smart Power Management

Lightweight, long life Li-Ion battery assures uninterrupted inspections. B2 includes a 2-bay intelligent charger, an internal battery charger and two batteries. Optional car/truck charger is available.

Fast Detection for Fast Action

Instantly image entire rooms, inspect places that can't be physically reached with moisture meters, reveal wet conditions behind surfaces such as enameled walls and wallpaper that don't readily water stain, track leaks to their source, monitor the drying process, and confirm when a structure is dry.

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.



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

ThermaCAM® B2 Technical Specifications

Imaging Performance	
Field of view/min focus distance	34° x 25° / 0.1m
Thermal sensitivity	< 0.10° C at 25° C
Detector type	Focal plane array (FPA) uncooled microbolometer; 160 x 120 pixels
Spectral range	7.5 to 13 µm
Image Presentation	
Display	2.5" color LCD, 320 x 240 pixels in IR image
Video output	NTSC, standard RCA composite video
Image controls	Palettes (Iron, rainbow, high contrast rainbow, B/W, B/W inv), level, span, auto adjust (continuous/manual)
Set-up controls	Date/time, language (English, Spanish), info, LCD intensity (high/normal/low)
Temperature range	-20° C to +100° C (-4° F to +212° F)
Image Storage	
Digital storage functions	Freeze, Standard JPEG images, Delete all images, Delete image, Open
Image storage capacity	Approximately 200 JPEGs
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
Battery operating time	2 hours. Display shows battery status
Charging system	In camera, AC adapter or 12V from car with optional 12V cable. 2 bay intelligent charger included.
AC operation	AC adapter 90-360 VAC, 50/60 Hz / 12VDC out
Voltage	11-16 VDC
Power saving	Automatic shutdown and sleep mode (user-selectable)
Environmental	
Operating temperature range	-15° C to +50° C (+5° F to 122° 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	< 1.5 lbs. (0.7kg), including battery
Size (L x W x H)	265mm x 80mm x 105mm (10.4" x 3.2" x 4.1")
Color	Yellow
Tripod Mounting	Standard, 1/4" - 20
Cover Case	Plastic and rubber
Interfaces	
USB	Image transfer to PC
RS 232 cable (optional)	Image transfer to PC
Lenses (optional)	
Field of view/min focus distance	9° x 7° / 1.2m 19° x 14° / 0.3m
Measurement	
Measurement modes	Movable spot, area max, area min, area average, color alarm above or below.
Dew point alarm	Color or audible alarm

ThermaCAM B2 System Includes:
IR camera with lens
Ruggedized transport case
Power supply
Hand strap
Lens cap
QuickView™ software
USB cable
User manual
Power cord
2 Batteries with 2 bay charger
Training CD



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www.flirthermography.com/B2data