FLIR

B60

SERIES

WE DEFINE TEMPERATURE

- Specifically designed for building applications - insulation and dewpoint alarms
- Locate poorly insulated areas, spot electrical and HVAC problems, detect plumbing issues

Get the Temperature Right!

An infrared camera measures the emitted infrared radiation from an object. The fact that radiation is a function of object surface temperature makes it possible for the camera to calculate and display this temperature. However, radiation is also a function of the emissivity.

Radiation also originates from the surroundings and is reflected from the object. To measure temperature accurately, it is necessary to compensate for these effects. The FLIR i series allows the user to adjust the emissivity and insert the reflected apparent temperature to gain a more precise measurement.

Want to know more about thermography?
Get a FREE IR Thermography Primer*
Register online at www.flir.com.au

* A guidebook containing the basic concepts of thermography and important features of IR cameras for maximum accuracy and user comfort

B60 SERIES

See Electrical Problems in Buildings

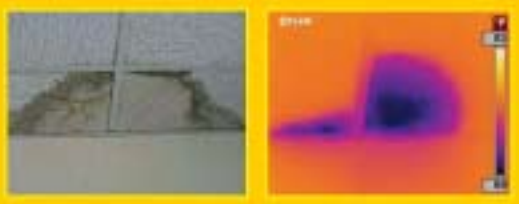
Locate electrical problems, issues with electrical connections, wiring or other system components. These are seen as "hot spots" in infrared, making them easy to locate and repair.

Quickly Locate Problem Areas

Easily locate and address ways to save money on energy costs using infrared, as shown in this image depicting a double pane among single pane windows.

Detect Plumbing Issues

Blockages in pipes can be quickly located with infrared, enabling an immediate response before the problem worsens.



Detect Building Moisture

Accurately locate building moisture issues and inspect places that can't physically be reached with moisture meters. Once repaired, the drying process can be monitored and repair work verified.

About FLIR

- Pioneers in the commercial infrared camera industry
- Has manufactured and supplied thermography equipment for over 30 years
- Offers unparalleled service, the best post-sale technical applications support available and world-class infrared camera and thermography applications training

Accurate Temperature Measurement

In order to accurately measure the temperature , the FLIR b-series allows users to adjust the emissivity factor from 0.1 to 1.0, depending on the material of the measured object. Reflected background temperatures can also be inserted to obtain more accurate temperature measurement.

Lightweight and Robust Design

Weighing only 600g, it is still rugged enough to pass the 25G drop proof and 2G vibration tests. The camera is IP54 rated to protect from splash and dust.

Designed for Building Inspections

Dew point and insulation alarms are designed for the building industry.

Easy to Use

Logical manual operation and design for maximum usability and comfort.

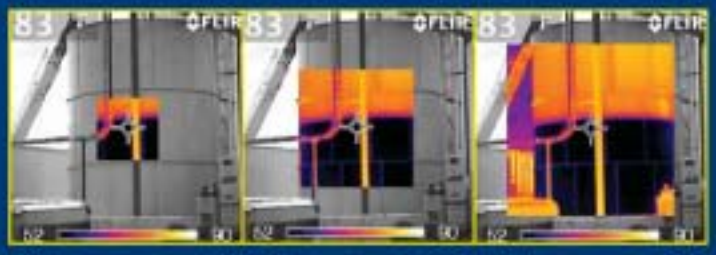
Image Presentation

Razor-sharp visual images help to capture detail rich reference images. Detector-size plays a key role in getting data-packed thermal images. No other camera in this class compares to the FLIR b60's 180x180 pixel detector and 2% accuracy. The b50's 140x140 pixel detector and the FLIR b40's 120x120 pixel detector also offer competitive thermal detection capabilities.

Exclusive, built in illuminator lamp sheds light on poorly lit sites and boosts ability to identify problem areas effectively.

Laser pointer helps to identify your measured target easily.

Exclusive FUSION scalable Picture in Picture (PIP) overlays the rich detail of an IR image over a high resolution visual light image in real-time.



Field Replaceable Battery

With a 5 hour battery life, it's easy to swap batteries in the field and keep up your demanding schedule.

Image Management

Image management is easy thanks to the standard JPEG format. The thumbnail picture gallery on the LCD saves you time when retrieving the best images for your documentation.

The Complete FLIR B series

		i5	B40	B50	B60
Measurement					
Temperature range		0°C to +250°C (+32°F to +482°F)	-20°C to +120°C ,	-20°C to +120°C ,	-20°C to +120°C ,
Accuracy		±2°C (±3.6°F) or 2% of reading	±2°C (±3.6°F) or 2% of reading	±2°C (±3.6°F) or 2% of reading	±2°C (±3.6°F) or 2% of reading
Measurement correction		Adjustable emissivity factor from 0.1 to 1.0; emissivity table is provided	Adjustable emissivity factor from 0.1 to 1.0; emissivity table is provided	Adjustable emissivity factor from 0.1 to 1.0; emissivity table is provided	Adjustable emissivity factor from 0.1 to 1.0; emissivity table is provided
Manual / Set up commands	Palettes (black and white, iron and rainbow)	Yes	Yes	Yes	Yes
	C/F	Yes	Yes	Yes	Yes
	Language	Yes	Yes	Yes	Yes
	Date and time format	Yes	Yes	Yes	Yes
	Auto adjust (Manual/Automatic)	-	Yes	Yes	Yes
	Alarm Function	-	Hot and cold color, dewpoint and insulation alarms	Hot and cold color, dewpoint and insulation alarms	Hot and cold color, dewpoint and insulation alarms
Detector Data					
Detector type		Focal plane array (FPA), uncooled microbolometer	Focal plane array (FPA), uncooled microbolometer	Focal plane array (FPA), uncooled microbolometer	Focal plane array (FPA), uncooled microbolometer
Spectral range		7.5-13µm	7.5-13µm	7.5-13µm	7.5-13µm
IR resolution		80 x 80 pixels	120 x 120 pixels	140 x 140 pixels	180 x 180 pixels
Visual resolution		-	0.6 megapixel	2.3 megapixel	2.3 megapixel
Image Presentation					
Display		2.8" color LCD	Built in display, 3.5" color LCD, 16k color	Built in display, 3.5" color LCD, 16k color	Built in display, 3.5" color LCD, 16k color
Laser in IR image		-	-	-	Yes
IR fusion picture in picture (PIP)		-	PIP (fixed)	PIP (3 steps)	PIP (PIP scalable)
IR Imaging and Optical Data					
Field of view / min. focus distance		17° × 17°	25° x 25°	25° x 25°	25° x 25°
Min. focus distance		0.6m (2ft.)	0.12m (0.41ft.)	0.12m (0.41ft.)	0.12m (0.41ft.)
Thermal sensitivity (N.E.T.D)		< 0.1°C (0.18°F)	< 0.1°C (<0.18°F)	< 0.1°C (<0.18°F)	< 0.08°C (<0.15°F)
Image Storage					
Storage type		miniSD card, 512 MB (>5000 images)	Removable SD micro memory card (1 GB), storage capacity (>1000 images)	Removable SD micro memory card (1 GB), storage capacity (>1000 images)	Removable SD micro memory card (1 GB), storage capacity (>1000 images)
Files format		Standard radiometric JPEG	Standard radiometric JPEG	Standard radiometric JPEG	Standard radiometric JPEG
Laser Pointer					
Laser pointer		-	-	Yes	Yes
Laser class		-	-	Class 2	Class 2
Power System					
Battery operation time		5 hours	5 hours	5 hours	5 hours
Battery information		Rechargeable Li Ion battery	Rechargeable Li Ion battery, Field replaceable, Display shows battery status	Rechargeable Li Ion battery, Field replaceable, Display shows battery status	Rechargeable Li Ion battery, Field replaceable, Display shows battery status
Charging system		In camera, AC adapter	In camera, AC adapter	In camera, AC adapter	In camera, AC adapter
AC operation		AC adapter, 90–260 VAC input. 5 V output to camera	AC adapter, 90–260 VAC input. 5 V output to camera	AC adapter, 90–260 VAC input. 5 V output to camera	AC adapter, 90–260 VAC input. 5 V output to camera
Environmental Data					
Operation temperature range		0°C to +50°C (+32°F to +122°F)	-15°C to +50°C (+5°F to +122°F)	-15°C to +50°C (+5°F to +122°F)	-15°C to +50°C (+5°F to +122°F)
Ruggedness test (Shock)		25G (IEC 60068-2-29)	25G (IEC 60068-2-29)	25G (IEC 60068-2-29)	25G (IEC 60068-2-29)
Ruggedness test (Vibration)		2G (IEC 60068-2-6)	2G (IEC 60068-2-6)	2G (IEC 60068-2-6)	2G (IEC 60068-2-6)
IR rating		IP43	IP54 protect against dust/splash	IP54 protect against dust/splash	IP54 protect against dust/splash
Data Communication Interfaces					
Video output		-	MPEG4 via. USB	MPEG4 via. USB	MPEG4 via. USB
USB – data transfer to and from PC		Yes	Yes	Yes	Yes
Physical Data					
Weight		0.75 lbs (340g)	1.32 lb (600g)	1.32 lb (600g)	1.32 lb (600g)
Size (L x W x H)		8.8" x 3.1" x 3.3"	9.3" x 3.2" x 6.9"	9.3" x 3.2" x 6.9"	9.3" x 3.2" x 6.9"
Built-in language versions		21 different languages	21 different languages	21 different languages	21 different languages

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