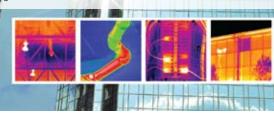


# FLIR®B620

The FLIR B620 high-definition infrared camera delivers maximum thermal sensitivity and imaging features for advanced building and energy surveys



**拉到基础** 



- New 640 x 480 Infrared Detector
- Powerful Thermal Sensitivity: <0.065°C
- Dew Point and Insulation Alarms
- FLIR Fusion Picture in Picture
- 3.2 Mpixel Visible Light Camera
- Easy Text and Voice Annotation

#### New and Improved Detector

The B620 infrared camera includes a new 640 X 480 infrared detector that delivers four times greater detail than cameras with 320 x 240 IR resolution. The new detector also delivers optimum <0.065°C thermal sensitivity at +30°C to help capture the finest image detail to determine trouble spots in buildings and infrastructure.

The B620's high-resolution capability enables accurate readings to be taken at greater distances, which helps ensure productivity, safety, and cost-effectiveness.

#### Survey at Safe Distances

For those applications where safe distances need to be maintained, the B620 can be used with interchangeable lenses and an optional FLIR handheld Wireless LAN-based remote control and display. The B620 also features a large target-distance to spot-size ratio for accurate measurements and analyses. This enables professionals to conduct quick, easy, and safe IR inspections.

#### Viewfinder and LCD

The B620 includes a tiltable color viewfinder (800 X 600) and a high resolution LCD (1024 X 600). The tilt-able viewfinder is ideal for outdoor work, especially in bright sunlight. The LCD provides convenient and comfortable viewing for extensive survey work.

#### **FLIR Fusion**

FLIR Fusion technology makes it easy to create compelling reports and communicate trouble spots to your team. Simply move, resize, and reshape IR images inside images you take with the B620's integral 3.2 Mpixel camera. What's more, the B620 camera supports thermal fusion, which lets you control the right level of infrared and visible light detail in your images. Infrared and visible light images taken with the B620 can be stored in standard JPEG formats. In addition, the B620 takes full-radiometric video clips to further boost productivity of IR inspections.

#### Visual Target Illuminator

The B620 visible-light camera has a target illuminator or lamp for taking pictures in low light areas, such as electrical cabinets. The target illuminator ensures good reference visual images can be documented regardless of the lighting conditions.

#### **FLIR Reporter Software**

Images are easily downloaded and managed using FLIR QuickReport and optional FLIR Reporter software.

#### **Productive Auto Focus**

Manual and Auto Focus allows operators greater flexibility when collecting images in a range of settings. Auto Focus allows new users to be productive sooner and manual focus provides the added control when needed.

#### Wireless Remote Control

Professional infrared camera users often work in hazardous areas or in places that are difficult to access. We have responded to our customers' feedback and developed a remote control that allows you to control all vital functions of the camera from a safe distance in a wireless mode.

#### **Text and Voice Annotation**

Simplify your reporting with the advanced text capabilities of the B620 camera. Create comments using the camera's soft key display or even download text from a PDA to automate image description.

## Three Hours Run-Time on a Single Battery

The B620 includes an intelligent charging station capable of conditioning and charging two 3-hour batteries at a time. In addition, like a cell phone, you can plug the B620 into an AC outlet or optional 12V cable and charge the battery while still in the camera.

## Factory Infrared Certification Training and Support

In addition to worldwide service and support, FLIR Systems offers Thermographer certification classes and high quality interactive thermography training from the most qualified international thermography instructor. The FLIR Systems infrared training Center (ITC) is the Global leader in IR Thermography Training.

### FLIR® B620 Technical Specifications

maging Performance	
Thermal	
Field of view/min focus distance	24° x 18° / 0.3 m (with standard lens)
Spatial resolution (IFOV)	0.65 mrad (with standard lens)
Thermal sensitivity @ 30°C	<0.065°C
Electronic zoom / pan function	1 - 2 x continuous, including pan function
mage Frequency	30 Hz (non-interlaced)
Focus	Auto, electric and manual
R Lens	24° plus optional interchangeable FLIR lenses
Detector type	Focal plane array (FPA) uncooled microbolometer; 640 x 480 pixels
Spectral range	7.5 to 13 µm
R Resolution	640 x 480 pixels
Visual	040 λ 400 μίλεις
Built-in digital video	3.2 Mpixel, full color / built-in Target Illuminator / auto focus
	3.2 Mpixel, full color / bull-in ranger illuminator / auto locus
mage Presentation	Dietuvo in Dietuvo movo vosino and vosbano ID imago incido visible light imagos
Image Fusion	Picture-in-Picture: move, resize, and reshape IR image inside visible light images.  Thermal Fusion: Merging of visual and infrared image (interval, above/below).
Reference image	Show live IR image and reference image on screen for easy troubleshooting.
Viewfinder	
	Built-in, tiltable, high-resolution color viewfinder (800 x 600 pixels)
Built-in display	Built-in 5.6" LCD (1024 x 600 pixels)
/ideo output	RS170 EIA/NTSC or CCIR/PAL composite video, USB
Measurement	
Object temperature ranges	-40°C to +120°C
Accuracy	2°C or 2% of reading
	3 spotmeters, 3 areas; auto hot/cold detection, lsotherms (above, below, interval),
Measurement analysis	Delta T, Line Prole, Reference temperature function
Menu controls	Palettes, load custom palletes, auto adjust (manual/continuous/based on histogra equilazation), on screen live and reference image, image gallery, programmable
Alarm functions	storage, user profiles, programmable buttons  Automatic alarm on any selected measurement function,
	audible/visible alarm above/below, humidity (includes dew point), insulation
Emissivity correction	Variable from 0.01 to 1.0 or select from listings in pre-defined material list  Automatic corrections based on user input for reflected ambient temperature,
Measurement features	distance, relative humidity, atmospheric transmission, and external optics
Optics transmission correction	Automatic, based on signals from internal sensors
mage Storage	
Туре	Removable SD-card (1GB)
lmage storage modes	Single image, simultaneous storage of IR and visual images
Periodic image storage	Every 10 seconds up to 24 hours
File format – THERMAL	Standard JPEG; 14 bit thermal measurement data included
File format -VISUAL	Standard JPEG inked with corresponding thermal image
Voice annotation of images	60 sec. of digital voice "clip" stored together with the image wired headset
Text annotation of images	Predefined by user and stored with image
Image marker /ideo Streaming	Markers on visual image
Non radiometric IR-video streaming	MPEG 4 streaming to PC using USB or WLAN, with optional Wireless remote control
	MPEG 4 streaming to PC using OSB or WLAN, with optional Wireless remote contro
Laser LocatIR™	Class 2, Semiconductor AlGaInP Diode Laser: 1 mW/635 nm (red)
Classification tune	VIASS / Semiconductor Algaine Diode Laser: L mW/635 nm (red)
Laser	Laser pointer activated by dedicated button
Laser Power Source	Laser pointer activated by dedicated button
Laser Power Source Battery type	Laser pointer activated by dedicated button  Li-lon, rechargeable, field-replaceable
Laser Power Source Battery type	Laser pointer activated by dedicated button
Laser Power Source Battery type Battery operating time	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable
Laser Power Source Battery type Battery operating time Charging system	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use In camera (AC adapter or 12V from car) or 2 bay intelligent charger or
Laser Power Source Battery type Battery operating time Charging system External power operation	Laser pointer activated by dedicated button  Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car
Laser Power Source Battery type Battery operating time Charging system External power operation	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)
Laser Power Source Battery type Battery operating time Charging system External power operation Power saving Environmental	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)
Laser Power Source Battery type Battery operating time Charging system External power operation Power saving Environmental Operating temperature range	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)
Laser Power Source Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)
Laser Power Source Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range Humidity (operating and storage)	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30
Laser  Power Source  Battery type  Battery operating time  Charging system  External power operation  Power saving  Environmental  Operating temperature range  Storage temperature range  Humidity (operating and storage)  Encapsulation	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30  IP 54 IEC 529
Classification type Laser Power Source Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Shock	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30  IP 54 IEC 529  Operational: 25G, IEC 68-2-30
Laser Power Source Battery type Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Shock Vibration	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30  IP 54 IEC 529
Laser Power Source Battery type Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Shock Vibration Physical Characteristics	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30  IP 54 IEC 529  Operational: 25G, IEC 68-2-30  Operational: 2G, IEC 68-2-6
Laser Power Source Battery type Battery operating time Charging system  External power operation Power saving Environmental Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Shock	Li-lon, rechargeable, field-replaceable  >3 hours at 25°C typical use  In camera (AC adapter or 12V from car) or 2 bay intelligent charger or 12V from car with optional DC 12V connection cable  AC adapter 90-260 VAC, 50/60Hz or 12V from car (cable with standard plug optional)  Automatic shutdown and sleep mode (user-selectable)  -15° C to +50° C  -40° C to +70° C  10% to 95%, IEC 68-2-30  IP 54 IEC 529  Operational: 25G, IEC 68-2-30

Interfaces	
USB-A	Connect external USB device
USB Mini-B	Data transfer to/from PC
IrDA	Wireless communication
SD-card slots (2)	I/O slot; storage slot
Camera includes:	
User documentation in	n CD-ROM
Camera with visual an	d IR lens
Power supply	
2 batteries (3 hours op	erating time on each)
2 bay charging station	ı
FLIR QuickReport soft	ware
Manual and Quick Ref	erence Card
SD-card with USB Card	d Reader
Headset	
Cables (USB, Video)	
Lenses (optional)	
Automatic lens identific Field of view/minimu	
25 micron / 18mm	
85° / 100m	
7° x 5.25° / 6m telelens	
12° x 9° / 1.2 m telelens	
45° x 34° / 0.2m wide angle lenses	
Close-up 50µm 32 mm	x 24 mm / 75 mm
Other Options	
FLIR Reporter software	
FLIR Image Builder sof	tware



Wireless remote control including WLAN interface

Optional Wireless Local Area Network remote control and display.



