

Thermal imaging cameras  
for security and surveillance applications



## FlashSight™

Portable thermal imaging camera  
for security and law enforcement applications.

The FlashSight is a handheld, shock-resistant, thermal imaging camera. It provides clear imagery through total darkness, fog, smoke, and most visual obscurants. It runs for over 4 hours on standard AA batteries and has a bellows eye cup so that the observer can stay out of the sight of potential perpetrators. The FlashSight is an excellent tool for police and other law enforcement agencies. The operator can easily detect suspects without being seen himself.

The FlashSight includes FLIR's advanced image processing techniques which deliver excellent contrast regardless of scene dynamics.

### **Crisp thermal images: 160 x 120 pixels**

The FlashSight provide crisp, clear thermal imaging, 160 x 120 pixels. Advanced internal camera software delivers a crisp image without the need for user adjustments. The FlashSight provides high quality thermal imaging in any night- or daytime environmental conditions.

### **Image storage for evidence gathering**

FlashSight will capture and internally store up to 70 images which can be used for evidence gathering. A supplied USB 2.0 adapter cable included with each camera, allows for image transfer from the FlashSight to a computer.

### **Choice of lenses**

The FlashSight comes standard with a 30 mm (15° Field of View). This lens offers excellent situational awareness. Optionally, for operators that want to see smaller details at further distances, the FlashSight can be equipped, at time of order, with a 50 mm (9° Field of View) lens.

### **Easy-to-operate**

Ergonomic and easy-to-use, FlashSight offers one button touch controls and a joystick for menu control.

### **Rugged, for use in any environment**

The FlashSight is IP65 rated and operates between -32°C and +55°C. Ideal for use in all weather conditions.



### **See without being seen**

With a selectable silent operating mode, FlashSight remains inaudible at a distance of more than 10 meters. A shuttered eye-piece allows operators to remain covert – even in total darkness. FlashSight's flat black color does not illuminate or reflect light, making it an ideal tool for conducting covert surveillance.

### **Extremely portable**

The FlashSight is a compact instrument weighing less than 1 kg. Ideal for go-anywhere operations.

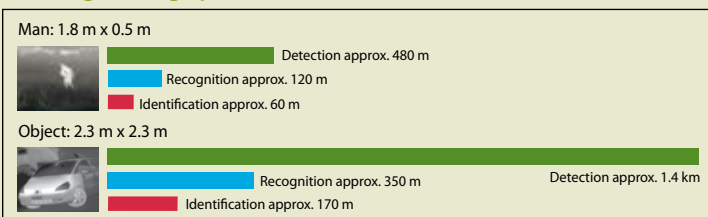
### **Long battery life**

The FlashSight operates on four commercially available AA cell batteries. It can be used for over 7 hours running on only 4 lithium batteries.

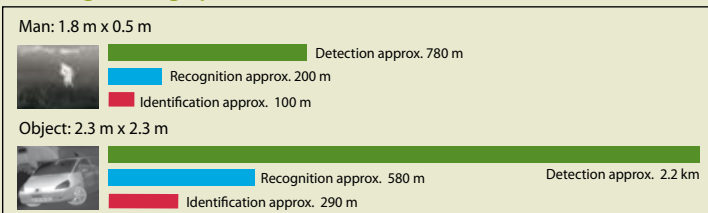
## Technical specifications

<b>IMAGING PERFORMANCE</b>	
Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	160 x 120 pixels
Field of view	7.5 to 13µm
	15° (H) x 11° (V) with 30 mm lens
	9° (H) x 7° (V) with 50 mm lens
	Lenses not interchangeable. Lens must be specified at time of order
Spatial resolution (IFOV)	50 mm lens: 1.0 mrad - 30 mm lens: 1.7 mrad
Thermal sensitivity	85 mK at 25°C
Image frequency	25 Hz PAL or 30 Hz NTSC
Focus	Manual
Image processing	Automatic Gain Control (AGC)
<b>IMAGE STORAGE</b>	
Type	Saves 70 bitmap (.BMP) images to internal memory
<b>IMAGE PRESENTATION</b>	
Video output	Built-in display and NTSC or PAL composite video
Connector types	SMA (SMA to BNC cable included)
<b>POWER</b>	
Requirements	4 AA batteries
Battery type and life-time	7 hours AA (Lithium cells) / 2.5 hours AA (Alkaline cells)
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Operating temperature range	-32°C to +55°C
Storage temperature range	-50°C to +80°C
Humidity	Rain
Encapsulation	IP65
Shock	Mil-Std-810E
Vibration	Mil-Std-810E
<b>PHYSICAL CHARACTERISTICS</b>	
Camera Weight	0.9 kg
Camera Size	25.4 cm in length
Shipping weight (camera + packaging)	4.5 kg
Shipping size (camera + packaging) (L x W x H)	34 cm x 24 cm x 18 cm
<b>INTERFACES</b>	
Command and control	Single push button with jog control for menu, contrast/brightness, polarity. Separate button for image capture.
<b>Standard Package</b>	
	FlashSight thermal imaging camera, USB2 cable, SMA-to-BNC cable, 2 battery cases, operator's manual and weather proof storage case.

### FlashSight: range performance 30 mm lens



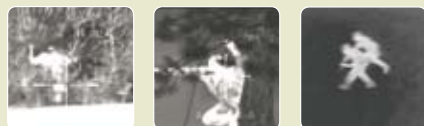
### FlashSight: range performance 50 mm lens



Actual range may vary depending on camera set-up, environmental conditions, user experience and type of monitor or display used.

#### Assumptions:

50% probability of achieving objective at specified distance given 2°C temperature difference and 0.85 / km atmospheric attenuation factor.



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### FLIR Systems: a full range of infrared cameras for thermal night vision applications

Whatever your application, FLIR Systems offers a solution to make you see clearly at night and in the most diverse weather conditions.

FLIR Systems has more than 50 years of experience in the development and production of infrared cameras for night vision applications. Recent technological developments have made it possible that know-how, which was reserved for military and high-end scientific users only, has made its way to many more applications.

#### FLIR Commercial Vision Systems B.V.

Charles Petitweg 21  
4847 NW Teteringen - Breda  
The Netherlands  
Phone : +31 (0) 765 79 41 94  
Fax : +31 (0) 765 79 41 99  
e-mail : flir@flir.com

#### FLIR Systems, Inc

CVS World Headquarters  
70 Castilian Drive  
Santa Barbara, CA 93117  
USA  
Phone : +1 805 964 9797  
Fax : +1 805 685 2711  
e-mail : sales@flir.com

#### FLIR Systems Ltd.

United Kingdom  
Phone : +44 (0) 1732 220 011  
Fax : +44 (0) 1732 220 014  
e-mail : flir@flir.com

#### FLIR Systems AB

Spain  
Phone : +34 915 73 48 27  
Fax : +34 915 73 58 24  
e-mail : flir@flir.com

#### FLIR Systems AB

Sweden  
Phone : +46 (0) 8 753 25 00  
Fax : +46 (0) 8 753 23 64  
e-mail : flir@flir.com

#### FLIR Commercial Vision Systems

China  
Tel. : +86 10 5869 8762  
Fax : +86 10 5869 8763  
e-mail : flir@flir.com

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