

Thermal imaging cameras  
for security and surveillance applications



PatrolIR™ | PatrolIR™ PTZ

Affordable thermal imagers for short- and medium range  
security and surveillance applications

Prices starting at  
**3,950 €**

Prices are Ex Works Santa Barbara,  
Excl. VAT and import duties



PatrolIR



PatrolIR PTZ



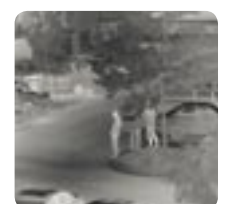
# PatrollIR and PatrollIR PTZ, from FLIR Systems, the world leader for thermal imaging systems



PatrollIR



PatrollIR PTZ



The PatrollIR and PatrollIR PTZ are very affordable thermal imagers. They provide crisp, clear thermal imagery in total darkness, light fog or smoke. They feature the same thermal imaging technology found in many of FLIR's most sophisticated security and surveillance systems, but are packaged for users who have short-range security and surveillance as their primary application. They include FLIR's advanced image processing techniques which deliver excellent contrast regardless of scene dynamics. Unlike other night vision systems that require low amounts of light to generate an image, the PatrollIR and PatrollIR PTZ need no light at all.

The PatrollIR is a fixed unit while the PatrollIR PTZ is mounted on a Pan/Tilt.

### Extremely affordable

The fixed mounted PatrollIR comes at an extremely affordable price of 3,950 €\*. From now on, price is no longer an object to integrate thermal imaging into your existing video security networks.

### Wide-angle lens

The PatrollIR and PatrollIR PTZ are equipped with a 19 mm wide angle lens. It gives you an extremely wide field of view (36°), so that you can cover a large area and keep excellent situational awareness.

### Crisp thermal images – 320 x 240 pixels

Both the PatrollIR and the PatrollIR PTZ provide crisp, clear thermal imaging, with 320 x 240 pixels. This allows the user to see more detail and detect more and smaller objects. Advanced internal camera software delivers a crisp image without the need for user adjustments. Both cameras provide high quality thermal imaging in any night or daytime environmental conditions.

(\* Prices are Ex Works Santa Barbara, Excl. VAT and import duties



### **Designed for use in harsh environments**

The PatrollIR and PatrollIR PTZ are extremely rugged systems. Their vital core is well protected, meeting Mil-Std-810E and IP66 requirement, against humidity and water. Both cameras operate between -25°C and +55°C.

### **Lightweight**

Being very lightweight, the PatrollIR and PatrollIR PTZ can be installed at any position. They can be mounted at an optimal observation point providing maximum field of view.

### **Two versions available**

The thermal imaging camera comes in two different versions:

- PatrollIR:  
This is a fixed mount thermal imaging camera. Once installed, it is always surveying the same area.
- PatrollIR PTZ:  
The PatrollIR PTZ can rotate up to +/- 180° horizontally and tilt +/- 45° vertically. This allows the operator to scan an entire area and observe wherever he wants.

### **Easy-to-use**

The PatrollIR and PatrollIR PTZ are extremely easy to use and require no operator training.

### **Easy-to-install**

The PatrollIR and PatrollIR PTZ can be easily integrated into any existing CCTV infrastructure providing early detection and visibility 24/7 all the year round. The images from the 320 x 240 pixels detector can be displayed on virtually any existing display that accepts composite video.

### **Thermal imaging: numerous security and surveillance applications**

In complete darkness, in the most diverse weather conditions Thermal imaging cameras create a virtual security fence and are finding their way into many security and surveillance applications.

Nuclear plants, petrochemical installations, warehouses, ports and airports, ... they all are vulnerable to theft, or even worse terrorist attacks, and can be protected by using thermal imaging cameras.

Terrorism, vandalism, and random violence threaten the safety of personnel and the integrity of public and private facilities. A comprehensive security program utilizing thermal imaging is the key to asset protection and risk mitigation.

Thermal imaging exposes threats hidden in the darkness, concealed by adverse weather, and veiled by obscurants like dust, fog, and smoke.

### **Protect your assets also in broad daylight**

Thermal imaging cameras will not only protect your assets against intruders during the darkest of nights. They are also perfectly suited to complement your existing cameras during daytime. The PatrollIR and PatrollIR PTZ will detect objects that remain invisible for the naked eye. They are not affected by glare from the sun. Both cameras will allow you to see through the glare, and detect intruders. Also people hiding in the shadows or in bushes, will be seamlessly detected.



# PatrolIR / PatrolIR PTZ



## Technical specifications

### IMAGING PERFORMANCE

Detector type	Focal Plane Array (FPA), uncooled microbolometer 320 x 240 pixels
Spectral range	7.5 to 13µm
Field of view	36° (H) x 27° (V) with 19 mm lens
Spatial resolution (IFOV)	2 mrad
Thermal sensitivity	100 mK at 25°C
Image frequency*	7.5 Hz NTSC or 8.3 Hz PAL*
Focus	Fixed
Electronic zoom	PatrolIR PTZ only: 2 x
Image processing	Digital Detail Enhancement (DDE)

### PAN - TILT: PatrolIR PTZ only

Az Range	+/- 180°
El Range	+/- 45°

### SYSTEM FEATURES

Remote Control	PatrolIR PTZ only: RS-422
----------------	---------------------------

### IMAGE PRESENTATION

Video output	NTSC or PAL composite video
Connector types	BNC (1) provides video output

### POWER

Requirements	12 V DC, +/- 25%
Consumption	PatrolIR: 3 W nominal, 30 W peak. PatrolIR PTZ: 5 W nominal, 45 W peak.

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-25°C to +55°C
Storage temperature range	-50°C to +85°C
Humidity	100% relative humidity salt spray
Sand/dust	Mil-Std-810E
Encapsulation	IP66
Shock	Mil-Std-810E and IEC 60068-2-27
Vibration	Mil-Std-810E

### PHYSICAL CHARACTERISTICS

Camera Weight	PatrolIR: 3.0 kg - PatrolIR PTZ: 5.0 kg
Camera Size	PatrolIR: 18.8 cm tall x 10.2 cm wide x 18.5 cm deep PatrolIR PTZ: 24.1 cm tall x 10.2 cm wide x 18.5 cm deep
Shipping weight (camera + packaging)	PatrolIR: 5.0 kg - PatrolIR PTZ: 6.4 kg
Shipping size (camera + packaging) (L x W x H)	36 cm x 41 cm x 21 cm

### INTERFACES

RS-422	PatrolIR PTZ only: command and control
--------	--

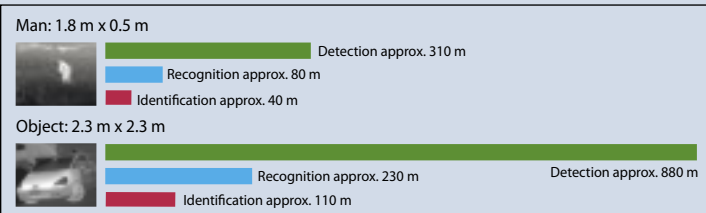
### Standard Package

Thermal imager, fixed or mounted on Pan/Tilt, operator manual

\* 30 Hz NTSC or 25 Hz PAL available. Subject to approval of the US Department of Commerce for use outside the USA.



### PatrolIR / PatrolIR PTZ: range performance 19 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.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

©Copyright 2007, FLIR Systems, Inc. All other brand and product names are trademarks of their respective owners.

### 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  
www.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  
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

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

Dubai - United Arab Emirates  
Tel. : +971 4 299 6898  
Fax : +971 4 299 6895  
e-mail : flir@flir.com

Your local dealer: