

## Thermal imaging cameras for security and surveillance applications



### VSR-6

Extremely affordable thermal imager for short range security and surveillance applications

The VSR-6 is an extremely affordable thermal imager. It provides crisp, clear thermal imagery in total darkness, light fog or smoke. It features the same thermal imaging technology found in many of FLIR's most sophisticated security and surveillance systems, but is packaged for users who have short-range security and surveillance as their primary application. It includes 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 VSR-6 needs no light at all.

#### Revolutionary price

Never has thermal imaging for security and surveillance applications been more affordable than today. Thanks to increasing demand, resulting in high volume production, FLIR Systems is able to market the VSR-6 for a revolutionary price.

#### Crisp thermal images 160 x 120 pixels

The VSR-6 provides crisp, clear thermal images with 160 x 120 pixels. Advanced internal camera software delivers a crisp image without the need for user adjustments. It provides good quality thermal imaging in any night- or daytime environmental conditions. The VSR-6 is an excellent thermal imaging camera for those users that have only short range requirements and want to detect man-sized or bigger targets.

#### Wide-angle lens

The VSR-6 is equipped with a 6.3 mm wide angle lens. It gives you an extremely wide field of view (52°), so that you can cover a large area and keep excellent situational awareness.

#### Designed for use in harsh environments

The VSR-6 is an extremely rugged system. Its vital core is well protected, meeting Mil-Std-810E and IP66 requirements, against humidity and water. It operates between -32°C and +55°C. The VSR-6 has a built-in heater. This ensures a clear lens and perfect infrared images displayed on your monitor even in extremely cold environments.



#### Lightweight

Very lightweight, VSR-6 can be installed at any position. It can be mounted at an optimal observation point providing maximum field of view.

#### Easy-to install / Easy-to-use

The VSR-6 is extremely easy to use and require no operator training. It can be easily integrated into any existing CCTV infrastructure providing early detection and visibility 24/7 all the year round. The images from the 160 x 120 pixels detector can be displayed on virtually any existing display that accepts composite video.

## Technical specifications

### IMAGING PERFORMANCE

Detector type	Focal Plane Array (FPA), uncooled microbolometer 160 x 120 pixels
Spectral range	7.5 to 13µm
Field of view	52° (H) x 42° (V) with 6.3 mm lens
Spatial resolution (IFOV)	6 mrad
Thermal sensitivity	<85 mK at 25°C
Image frequency*	7.5 Hz NTSC or 8.3 Hz PAL*
Focus	Fixed
Image processing	Digital Detail Enhancement (DDE)

### SYSTEM FEATURES

Automatic heater	Yes
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### IMAGE PRESENTATION

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

### POWER

Requirements	14 - 32 V DC, 18 - 27 V AC
Consumption	4 W nominal, 9 W peak.

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-32°C to +55°C
Storage temperature range	-50°C to +85°C
Automatic Window defrost	Yes
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

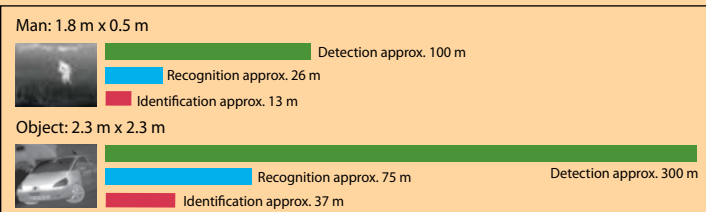
Camera Weight	2.1 kg
Camera Size	27.9 cm x 12.7 cm x 14.6 cm
Shipping weight (camera + packaging)	5 kg
Shipping size (camera + packaging) (L x W x H)	36 cm x 51 cm x 34 cm

### Standard Package

Thermal imager, operator manual

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

### VSR-6: range performance 6.3 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

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### 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. 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.

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