

## PathFindIR™ installation kit

Complete package for integrating the FLIR Systems PathFindIR in all types of existing vehicles



The PathFindIR is finding its way to more and more enthusiastic users. There is a huge interest for after-market installations. The PathFindIR is being installed in numerous military, mining, emergency and fire fighting vehicles, trucks, busses, passenger cars and other vehicles.

### Complete package for mounting the PathFindIR in existing vehicles

As requested by users who want to install the PathFindIR in existing vehicles, FLIR Systems has developed a complete package that provides all the necessary equipment required to install and use thermal imaging technology. This PathFindIR kit is the ideal tool if you want to equip existing vehicles with the power of thermal imaging.

The kit consists of the following components:

- PathFindIR thermal imaging camera
- High resolution 7 Inch LCD monitor which can be mounted either on the dash or on the cab ceiling with included bracket. The monitor has contrast, brightness, and hue adjustments adding flexibility in performance. The monitor kit also includes a protective fuse, quick disconnect from the bracket, and a removable sun shield for daytime operation and glare reduction.
- 6 meter Detachable Pigtail Cable: for routing the

PathFindIR's power and video interface into a passenger compartment. On one side the cable connects to the PathFindIR. On the other end it has 2 wires that can be terminated, as required by the user, for hooking into the vehicle power bus and a video cable that is terminated with a BNC connector

- Universal Mounting Bracket and Mounting Hardware to install the PathFindIR in a vehicle
- PathFindIR Users Guide
- LCD Cable, BNC to S-Video, 8.8 meters

Thanks to this complete kit, it becomes extremely easy to install the PathFindIR in almost any vehicle.

Information on installation is provided in the PathFindIR Users Guide that is included in the kit.

### Extremely affordable package

The PathFindIR after-market kit is an extremely affordable package.



### High quality

All components have been selected by FLIR Systems so that the entire kit complies with the stringent quality requirements for which FLIR Systems is renowned.

### PathFindIR thermal imaging camera

The PathFindIR is available in 4 different versions:

- 25 Hz PAL
- 8.3 Hz PAL
- 30 Hz NTSC
- 7.5 Hz NTSC

The required version needs to be specified when ordering a PathFindIR installation Kit

25 Hz PAL and 30 Hz NTSC versions are subject to approval of the US Department of Commerce for use outside the USA.

# PathFindIR™ installation kit



## PathFindIR: technical specifications

### IMAGING PERFORMANCE

Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	324 x 256 pixels
Field of view	8 to 14µm
Spatial resolution (IFOV)	36° (H) x 27° (V) with 19 mm lens
Thermal sensitivity*	2 mrad
Image frequency	100 mK at +25°C
Focus	8.3 Hz PAL or 7.5 Hz NTSC *
Image processing	Automatic (25 m to infinity) Digital Detail Enhancement (DDE)

### SYSTEM FEATURES

Time to image	< 2 seconds
Automatic heater	When window temperature is below +4°C

### IMAGE PRESENTATION

Video output	RS170 EIA/NTSC or CCIR/PAL composite video, 75Ω
Connector type	Standard 6 meter power/video cable with sealed connector

### POWER

Requirements	6 - 16 V DC
Consumption	2 W quiescent, 6 W max (with window heater on)

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-40°C to +80°C
Storage temperature range	-57°C to +105°C (Extended storage time above +40°C is not recommended due to reduction in service life)
Humidity	6,500 hours at 81%rh at +25°C and salt spray per IEC 60068-2-11Ka
Sand / dust	Mil-Std810
Icing	Heater will defrost 2 mm of ice within 15 minutes at -30°C and windspeed of 100 km/h
Encapsulation	Hermetically sealed enclosure - IP67
Shock	5 30g shocks in 2 directions on 3 axes (30 total) 11 mSec duration per IEC 60068-2-27Ea
Vibration	IEC 60068-2-64

### PHYSICAL CHARACTERISTICS

Camera Weight	360 grams
Camera Size	57.4 mm x 56.1 mm x 71.4 mm excluding connector which protrudes an additional 28.7 mm
Shipping Weight	680 grams (PathFindIR only) - 816 grams (PathFindIR + pigtail cable)
Shipping Size	228 mm x 228 mm x 228 mm
Shipping Weight : PathFindIR installation kit	3.4 kg
Shipping Size : PathFindIR installation kit	483 mm x 483 mm x 483 mm

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

### Thermal imaging for driver vision enhancement

Thermal imaging is a powerful driver's vision enhancement system, which significantly reduces the risks of night-time driving and allows you to see up to 5x further than with headlights. It produces clear images in total darkness, smoke, rain and light fog. It needs no light whatsoever to operate. Thanks to thermal imaging, drivers can more quickly detect and recognize potential hazards and avoid deadly accidents.

By allowing drivers to see thermal images of the road ahead - well beyond what headlights illuminate - drivers are able to detect obstacles, other cars, curves in the road, ... much sooner and have more time to react. Thanks to thermal imaging, drivers can more quickly detect and recognize potential hazards and avoid deadly accidents.

#### 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  
Phone : +86 10 5869 9786/8762  
Fax : +86 10 5869 8763  
e-mail : flir@flir.com

#### FLIR Systems Middle East, FZE

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

Your local dealer:



**PathFindIR installation kit:**  
Part number 421-0029-00  
The PathFindIR installation kit consist of the following components:



PathFindIR  
Thermal imaging camera



Pigtail cable for routing the PathFindIR's power and video interface into a passenger compartment



Universal mounting bracket + mounting hardware



High resolution 7 Inch LCD monitor



LCD Cable, BNC to S-Video, 8.8 meters

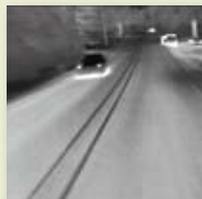


Users Guide

### Part numbers PathFindIR:

- 25 Hz PAL	334-0001-00P
- 8.3 Hz PAL	334-0001-00PS
- 30 Hz NTSC	334-0001-00
- 7.5 Hz NTSC	334-0001-00S

Please specify the required version of the PathFindIR when ordering a PathFindIR installation kit



#### Legal disclaimer:

FLIR Systems accepts no responsibility and can not be held liable for any error or accident resulting from the use of its thermal imaging systems or errors in the interpretation of the image by the user.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

©Copyright 2009, FLIR Systems, Inc. All other brand and product names are trademarks of their respective owners.