



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. Prices are starting at 3,350 € (*)



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.

(*) Prices are ex-works Santa Barbara, excl. VAT and import duties.

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.

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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

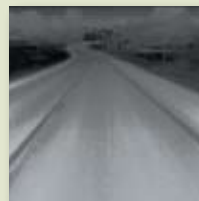


Users Guide

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