

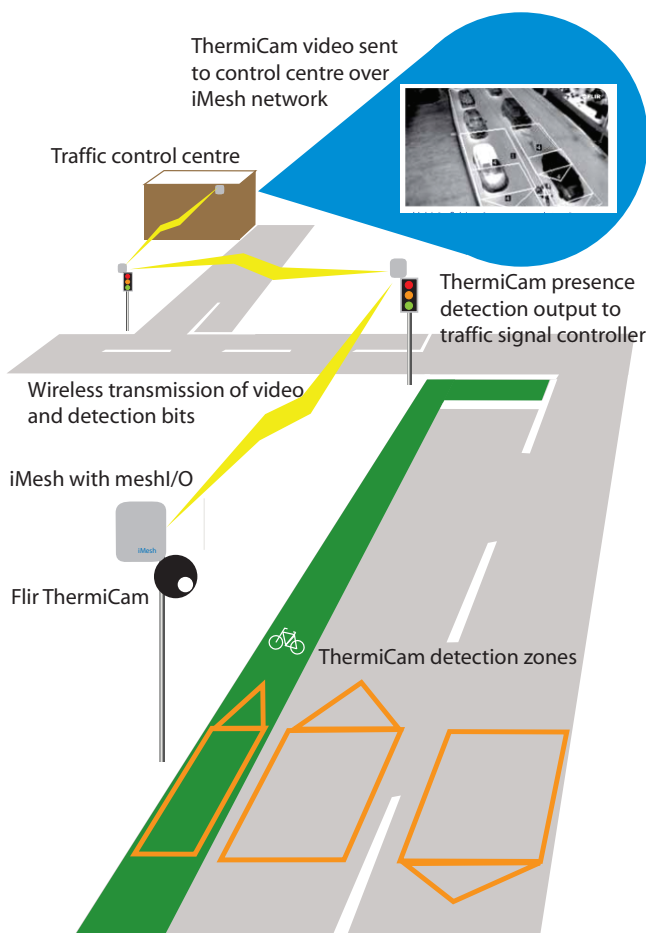
Case Study: Using mesh/I/O to carry FLIR Thermicam detection and video data

Introduction

IDT supply wireless communication networks for Urban Traffic Control (UTC) and other intelligent transport systems. With connectivity to over 5,500 roadside devices, IDT's *iMesh* technology delivers secure, reliable communications to highways authorities throughout the UK.



FLIR is the world leader in the design, manufacture, and marketing of thermal imaging infrared cameras. FLIR's ThermiCam is an integrated thermal camera and detector for vehicle, bicycle and pedestrian detection. ThermiCam does not need light to operate, but provides reliable traffic detection in the darkest of nights, over a long range and in the most difficult weather conditions, based on the thermal energy emitted from vehicles, bicyclists and pedestrians.



The solution

ThermiCam ETH supports up to 24 vehicle presence and 8 cyclist presence detection zones and streaming video - all of which are transmitted via ThermiCam's ethernet port.

In addition to sending presence detection via ethernet, ThermiCam has three volt-free contact closure outputs.

By connecting these outputs to IDT's *mesh/I/O* the volt-free contact status can be instantaneously transmitted over an *iMesh* wireless link. A *mesh/I/O* unit at the destination converts the signal back to relay outputs for presentation at, for example, a traffic signal controller.

With the ability to remotely setup and configure FLIR ThermiCam, *iMesh* offers a complete (and highly secure) solution for the deployment of ThermiCam, either in a standalone scheme or as part of an integrated system.

For further information on ThermiCam please contact FLIR at www.flir.co.uk.

For further information on *iMesh* or *mesh/I/O* please contact IDT at the details below.