

Irish Aviation Authority (IAA)

IAA installed ADPRO Pro Series Infra Red Detectors and ADPRO FastTrace Surveillance to help protect the safe control of air traffic in the skies over Ireland.

Irish Aviation Authority

The Irish Aviation Authority (IAA) is a commercial state-sponsored body responsible for the provision of air traffic management services in Irish-controlled airspace and the safety regulation of the Irish civil aviation industry

Location:
Ireland

Industry
Aviation

Products used
PRO Series Passive Infra Red Detectors
ADPRO FastTrace

The challenge

The Irish Aviation Authority (IAA) operates an Air Traffic Control Centre, 4 long-range radar sites and 2 air traffic radio communication sites spread out across Shannon, Cork and Mayo. From IAA's Control Centre at Shannon some 280,000 over-flights are handled per year, they can handle up to 80% of the air traffic travelling between North America and Europe.

IAA are responsible for the safe transit of air traffic through this busy air space therefore security is paramount to the health and safety of its staff, visitors and equipment. Gerry Guihen, Property and Security Manager at the IAA says "To do this, our security system must be able to ensure that all our assets are protected and secure at all times. We must look at new ways of managing the increased threat (since 9/11) and ensuring that people and assets are protected." Not only is IAA responsible for providing the management and aeronautical communications services in Irish controlled airspace, but it is also the regulator for safety standards within the Irish civil aviation sector.

IAA needed a remotely managed perimeter and site protection security system that could be used to monitor security (and health & safety), a system that could cover large areas with the ability to monitor several sites from a central control centre for the overall protection of personnel and equipment.

The solution

The IAA had a need to detect breaches to their security by human targets even in low visibility over varying areas and on numerous sites. IAA's security needs extended over several large remote sites, so the high mounting of the PRO Detectors (up to 4 metre high) ensures the detectors are out of reach of possible vandalism and are tamperproof. The PIR technology can distinguish between



a human intruder and other movements that could possibly be picked up by detectors such as animals or the motion from bushes and trees, this therefore reduces the number of false alarms.

The installation of Pro Detector's infra red technology can detect an intruder at up to 150 metres sensing temperature differences between them and the background. Due to the passive operation of the units, the area being protected cannot be determined by the intruder. The system is very easy to install and reliable in difficult conditions such as low visibility, snow and fog, important when taking into account factors such as the Irish weather. If the Pro Detector identifies an intruder it triggers an alarm that activates ADPRO FastTrace system which immediately sends pictures to a central security control room, making the system a quick and simple solution to managing security over a large distance and on multiple sites.

With Pro Detector technology in combination with ADPRO FastTrace, IAA can now remotely monitor any breaches to its security (or any health & safety) issues on its sites spanning large areas directly to IAA's Security Control Centre at Shannon.

Mr Guihen sees the ability to gather digital images across great distances as a break through in modern electronic security "These new technologies are proving to be essential for today's businesses with sites spread out over a country and even over the world".

The results

IAA found that ADPRO FastTrace and the Pro Detector's infra-red technology was the ideal solution to providing the security that the IAA needs to protect its air traffic control centre and also its six remote locations housing essential radar and communications infrastructure across the region.

The system was easy to install and Mr Guihen is very pleased with the results, he comments "The system has been installed to protect, this is its primary function and we're very pleased with results."

IAA found that ADPRO FastTrace and the Pro Detector's infra-red technology can also monitor potential Health & Safety issues, as footage of any accidents or incidents can be recorded to determine the causes and the issues dealt with quickly and efficiently

Mr Smeallie of A10mada, the systems integrator adds: "The size of the project, the distances covered and the vagaries of the Irish weather have all made this a challenging project, but the results speak for themselves."



“The system has been installed to protect, this is its primary function and we're very pleased with results.”

Gerry Guihen
Property and Security Manager

www.xtralis.com

The Americas +1 781 740 2223 **Asia** +852 2297 2438 **Australia and New Zealand** +61 3 9936 7000
Continental Europe +41 55 285 99 99 **UK and the Middle East** +44 1442 242 330

The contents of this document are provided on an "as is" basis. No representation or warranty (either express or implied) is made as to the completeness, accuracy or reliability of the contents of this document. The manufacturer reserves the right to change designs or specifications without obligation and without further notice. Except as otherwise provided, all warranties, express or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

This document includes registered and unregistered trademarks. All trademarks displayed are the trademarks of their respective owners.

Your use of this document does not constitute or create a licence or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by Xtralis AG ("Xtralis"). You agree not to copy, communicate to the public, adapt, distribute, transfer, sell, modify or publish any contents of this document without the express prior written consent of Xtralis.

Doc. no: 14391_00

