

INVESTED IN 

BRITAIN

FOCUS ON: MISSION-CRITICAL SYSTEMS AND SUPPORT

**SIGNAL
JAMMER
DETECTED**

Welcome

Welcome to the sixth Raytheon UK Invested in Britain newsletter. This issue, we're taking a look at how we're delivering mission-critical systems, solutions and services that safeguard our national security 24 hours a day, seven days a week.

At Raytheon UK, we know that investing in market-leading technology and innovating at pace isn't enough on its own. We also need to provide products and services that are reliable, ready and unrivalled, as well as being on-hand to support our customers as a true partner, 24hrs a day.

As a trusted partner to the UK government, this could mean being ready to support on-site in the early hours of the morning or responding to a changing, complex situation by guiding customers across the world.

We pride ourselves on offering this kind of support anytime, anywhere. When providing mission critical systems and services, we'll always be vigilant and ready to meet the fast-evolving threats to our national security.

We hope you enjoy this edition of our newsletter. If you want to find out more about Raytheon UK's systems and services or have any questions, please get in touch.



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Positioned to perfection

As electronic warfare becomes increasingly sophisticated, Landshield – our next-generation Global Navigation Satellite Systems (GNSS) anti-jamming technology – is ready to tackle any challenge.

Militaries around the world rely on GNSS for their operations. But as demand for these systems increases, forces are experiencing both unintentional interference and purposeful attempts to disrupt them, such as spoofing, makes systems appear to drift away from their navigation position.

"This is well recorded in the commercial piracy environment, where ships get spoofed off-course, hijacked and pirated," says Alex Rose-Parfitt, Director of Engineering at Raytheon UK. "An example in the military context could be spoofing an incoming missile so it doesn't reach its target."

That's where Landshield comes in. It's a 1-kilogram, low-power product that nullifies the effects of hostile jammers and alerts users to interfering signals.

Users are provided real-time data when they're in GPS-contested environments. These alerts prompt them to double-check the integrity of the information they're receiving and can help identify the type of interference they're encountering.

CONTINUES ON NEXT PAGE

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Positioned to perfection

To date, Raytheon UK has delivered more than 13,000 GPS anti-jam systems that have been deployed on more than 40 different platforms, including land vehicles, helicopters, weapons systems and unmanned aerial vehicles (UAVs). But anti-jamming technology is always evolving, with many customers looking for satellite anti-jamming to be miniaturised, for example.


“Our assured position, navigation and timing team is researching and developing alternative technologies,” explains Rose-Parfitt. “These include exploiting signals, developing smarter antennas and researching innovative quantum technologies to assess whether these would benefit our product line in the future.”

FIND OUT MORE

Visit: raytheon.com/uk/news/feature/keeping-time-and-operational-tempo

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Purpose-built, purpose driven

 Our Advanced Battlespace Computer Simulation, or ABACUS, training technology is helping UK and NATO units prepare for the multitude of different scenarios they might face in the field.

Raytheon UK provides the British Army and NATO units with training sessions from three Command and Staff Trainer (CAST) purpose-built, military training facilities in the UK and Germany.

At these sites, our ABACUS technology trains 1,250 UK and Canadian soldiers every year through digital simulations. As a trusted training delivery partner for thousands of soldiers, Raytheon UK works in close collaboration with the UK Ministry of Defence (MoD), with five Raytheon UK engineers and one manager permanently located at the CAST sites to plan and facilitate the training.

Having our expert teams on-site means that training can be changed quickly to suit the military’s needs – something which the MoD praised in a letter to the Raytheon UK engineers recently.

“[The MoD’s] comments validate the efforts of our engineers, who – primarily because of their own military backgrounds – share a common ethos with our customers,”

explains Rob Rowbotham, Raytheon UK’s CAST Tri-Site site lead.

“The team strive to deliver the level of service that’s demanded in such circumstances,” Rowbotham said. However, the role of the military staff who embrace this level of integration and value the close relationship is equally enabling.”

Recently, the CAST team rolled out ABACUS in a training exercise at Castlemartin ranges in Wales, which trains soldiers in armoured vehicles.

To make the exercise a success, there are some critical considerations for the team of engineers to take into account – such as the provision and stability of power and network infrastructures. For the Castlemartin exercise, the team installed a temporary network and built a classroom to train operators on how to use ABACUS.

While the exercise was a small-scale test, the team of engineers also made sure the MoD can use ABACUS for up to 16 hours a day – a prime example of how we’re always ready to support the customer.

FIND OUT MORE

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Decades in the making

By nurturing longstanding customer relationships, our customers trust us to deliver when it matters. Here’s how our customer services and support teams do just that.

Many of our service contracts with customers last up to 30 years – so how do our teams build collaborative relationships with such longevity? To Steven Cant, head of Customer Services and Support for Raytheon UK’s Sensors business, it’s all about an agile mindset and teamwork.

“It’s very much a collaborative approach to customer support,” explains Cant. “When a customer procures Raytheon UK technology, they’re not just buying a product – they’re buying a capability.”

Cant and his team oversee customer support for the National Air Traffic Services as well as the British Army, Royal Air Force and the Royal Navy. His role includes supporting around 500 Monopulse Secondary Surveillance Radars (Mk2 MSSR); indigenous state-of-the-art surveillance technologies for air traffic operators around the world.

Cant’s team is responsible for the management of spares, repairs, technology support and training. Delivering that capability means we need to stay close to our customers, make the most of our integrated customer team and utilise agile technologies to support the customer mission over decades.

“We want to sustain that operational capability for as long as the customer needs. To do that, we provide them with the right level of optimised support,” said Cant. “Because we work very closely with our customers and frontline staff and have the highest level of team integration, we build enduring, long-term customer relationships organically.”

FIND OUT MORE

Visit: raytheon.com/uk/news/feature/pearls-wisdom-customer-teaming

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