

DSEI 2021: Inzpire Limited introduces three new training simulator system demonstrators

Inzpire will be exhibiting at DSEI on stand H7-600

Lincoln, England, UK; 1 September, 2021: Inzpire Limited's Mission Training Devices Division will be unveiling three brand-new simulator system demonstrators at DSEI 2021.

The three systems include: the Compact Agile Simulator Equipment (CASE) ISR/UAS, which is a deployable unmanned aerial system (UAS) simulator; a mixed reality (MR) deployable joint terminal attack controller (JTAC) simulator (CASE JTAC); and the Vortex Helisim, a deployable single seat helicopter simulator comprised of a virtual reality (VR) headset and screen.

CASE UAS/ISR is designed to deliver cost-effective ISR and UAS training to the trainee at the point of need. The entire system, contained within ruggedised pelican cases, is easily moveable by one person for ease of transport and can be set up ready for training within minutes.

The system can be configured to deliver individual training to UAS pilots or sensor operators, or configured to support team/crew training of pilots and sensor operators, as well as mission intelligence coordinators and image analysts. CASE can replicate a vast array of sensor and weapons payloads including EO/IR, radar (SAR, MTI, GMTI, DBS, ISAR), laser (LTD, LRF, Lidar) and SIGINT.

CASE JTAC is a MR simulator training capability which consists of a series of ruggedised deployable cases; all elements of the system can be used as standalone individual simulators or networked together to provide a full team training capability.

The design of the system allows for the use of real-world equipment alongside MR headsets, allowing for greater immersion without the isolation effects associated with pure VR simulation systems. Whilst utilising CASE JTAC, trainees can still interact with each other, enhancing team training without the infrastructure and costs associated with expensive dome projection systems.

The Vortex HeliSim is a deployable single-seat helicopter simulator with SFS Pegasus passive helicopter flight controls that can be operated either in VR or with curved monitors to create an immersive training solution for individuals or teams. The simulator utilises commercial-off-the-shelf products to provide cost-effective training in an upgradable and scalable synthetic training solution.

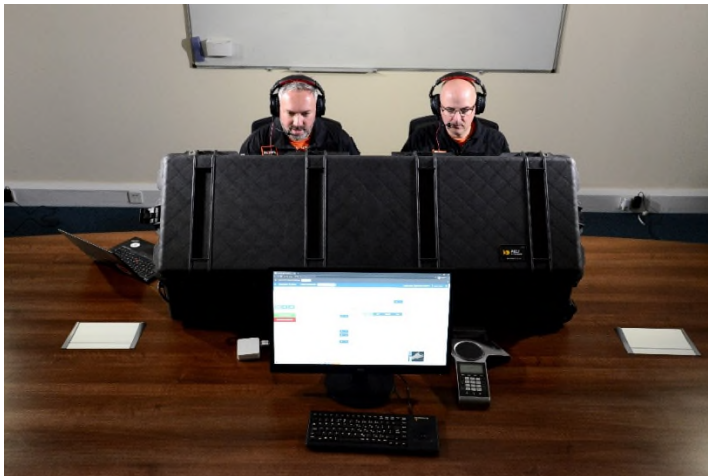
The Vortex Helisim is designed for all areas of rotary training, with a particular focus on enhancing tactical and judgement skills. The simulator can be used by individuals to improve everything from basic procedural understanding to coping with challenging tactical scenarios, and is designed to be scalable; two or more Vortex HeliSims can be networked together, to enable immersive, multi-crew helicopter training.

The Vortex HeliSim also provides improved immersion for helicopter role players as virtual entities in a networked collective synthetic training environment.

Steven Pook, Inzpire's head of mission training devices, said: *"As a result of the disruption and challenges that the Covid-19 pandemic has presented over the past 20 months, Inzpire's Mission Training Devices Division has recognised the ever-greater importance of synthetic training which can be delivered at the point that the customer needs it most."*

“Our new simulators provide deployable synthetic training capability, lessening costs to the customer thanks to the reduced infrastructure, transport and subsistence costs associated with larger centrally-hosted systems.

“Inzpire’s new Mission Training Devices are capable of deploying with units on operations or on training deployments, ensuring that currency, competency and the opportunity for mission rehearsal in a synthetic environment is maintained away from home base. Ultimately Inzpire’s new Mission Training Devices are designed to maintain and enhance the operational effectiveness of our customers’ personnel wherever they may be.”



Images: Inzpire’s CASE UAS/ISR simulator takes training to the trainee. Stuart Wilde Photography (rights held by Inzpire). For high-res versions please see the media contact below.

ENDS

Notes to the editor – Technical details:

CASE UAS/ISR – Technical Details

Throughout DSEI 2021, CASE UAS/ISR will be set-up as a pilot and sensor operator station along with a single screen IOS and will be able to demonstrate the following key features:

- Software Presagis' UAVCraft will be used to represent generic fixed wing and rotary UAS platforms;
- Simulation of EO/IR sensor, air-to-ground radar payloads;
- Laser ranging and targeting, and a generic air-to-ground missile weapon similar to Hellfire;
- The system runs on two NUC Skull Canyon small form computers with 2080 graphics cards.

CASE JTAC – Technical Details

The CASE JTAC system consists of two pelicase standard computer units (PSCU) which provide all necessary hardware to support individual elements of the JTAC and IOS.

The JTAC Training Simulator System (TSS) includes one 22" JTAC PSCU and one 22" IOS PSCU. The JTAC PSCUs include the following additional equipment fully integrated into a standard 22" PSCU:

- One virtual Eagle Viewing Device (vEVD) to simulate binocular, laser range finder and laser target designator;
- One replica IZLID IR pointer;
- One Varjo XR-3 MR headset;
- One instance of Bohemia's VBS 4 software;
- One Instance of Bohemia's VBS Blue IG (MR headset);
- One instance of BSI's Viper DIS radio software and PRC-152 radio skin;
- BSI's EAGR software (Defence Advanced GPS Receiver (DAGR) emulation);
- DACAS/CIVTAK software hosted on Samsung tablet (digital CAS).

Vortex HeliSim – Technical Details

The Vortex HeliSim system is powered by a Vortex NUC9i9VX small form computer 32GB RAM, 1TB SSD HD, RTX 3070. Throughout DSEI, Inzpire will be utilising the DCSWorld software to simulate multiple rotary aircraft types as well as a Vive Pro VR headset.

Inzpire Limited

Founded in 2005, Inzpire is a multi-award-winning supplier of advanced defence training, technical services and cutting-edge mission systems. The company is a trusted partner of the UK MOD and employs highly experienced former military personnel who work alongside defence engineers and business professionals to deliver operationally credible solutions to military, private and public sector customers. Find out more at www.inzpire.com.

Inzpire's Mission Training Devices Division

Inzpire's Mission Training Devices Division design and deliver targeted fidelity simulator training systems which provide customer-specific yet cost-effective capability for standalone, networked and distributed training across a range of platforms.

In addition to the provision of innovative simulator products, Inzpire's personnel come with an extensive pedigree in the design and delivery of complex and immersive simulator training and are also qualified in 'train the trainer' instruction.



Therefore as part of a complete training solution, Inzpire provides instructors and operators to deliver the required training.

Interview Requests

Inzpire Limited will be exhibiting at DSEI 2021 on stand H7-600. If you wish to set up an interview during the exhibition to learn more about Inzpire's mission training devices or any other Inzpire products and services, please contact our PR representatives for the show:

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