

## Wire-free mobile IR comms system allows stealth operation during radio silence



The main focus of Link Microtek's stand at this year's DSEi exhibition will be the company's Azdec wire-free mobile communications system, which uses infra-red technology to provide totally secure short-range voice communications for a variety of military applications.

A fully operational Azdec system will be featured on the company's stand, and there will also be an opportunity to see the system in situ on the bridge of a Royal Navy Type 45 Destroyer docked alongside the ExCeL venue.

Other than the link from headset to battery pack, the system has no wires and therefore gives personnel complete freedom of movement, whereas conventional wired systems

tend to severely restrict operator mobility.

Since the Azdec system's envelope of reception is well defined and there are no radio-frequency emissions, it is impossible to detect the signals by any conventional method. In an operational context, this means that totally secure, wire-free communications can be maintained on board ship whilst operating under conditions of radio silence.

Operators can either speak to each other or link into a main communications system via a central base station. The low-level infra-red digital encoding technology poses no health or EMC hazard and is completely immune to electromagnetic interference – even severe energy pulses.

As there are no radio-frequency emissions, the system will not cause interference with munitions, fuel or radio systems so can be operated in areas on board ship where even low-power radio systems would cause interference or risk of explosion.

As well as offering secure mobile communications, the Azdec system is ideal for use wherever electrical or acoustic noise is an issue or where intrinsically safe equipment is required.

In addition to the bridge of a naval vessel, other typical application areas would include ships' operations rooms or engine rooms, helidecks, refuelling areas, minesweepers, coastguard vessels, air traffic control towers, helicopters, armoured vehicles, munitions stores, and oil and gas facilities.

Capable of providing multi-channel, full-duplex communications for areas up to 10,000 square metres, the robustly designed Azdec system comprises a compact base station, a number of fixed infra-red antennas, a choice of noise-attenuating or ultra-lightweight headsets, operators' belt-mounted battery packs/control units, and a central battery-charger unit.

LM395

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