

# Antennas for Countering the unlawful use of drones



# Antennas for Countering the Unlawful Use of Drones

Chelton (Newmarket) have drawn on our vast range of resources to provide antenna solutions for systems designed to compromise the unlawful use of drones.

The range primarily consists of Wideband Omni-Directional, Directional Helix (single or dual-band), Directional Flat Panel and High Power Directional antennas. The antennas can be combined or configured in arrays for a multitude of scenarios.

Antenna combinations will depend on the method of countering Drones, from straight forward jamming, to spoofing and direction finding. Chelton can help to offer the optimum solution.



## Wideband Omni's

- High power Omni directional jamming
- Multiple elements which can be phase or amplitude matched for Direction-finding array
- Omni coverage for general surveillance

## Directional Helix Antennas

- Directional for high gain long-range Jamming
- Two bands in one unit are possible reducing size and weight especially for portable systems i.e:
  - L1 GPS (1.57GHz) & ISM band (2.4GHz)
  - L2 GPS (1.2GHz) & ISM Band (900MHz)
- Circular polarisation to counter all threats
- Reduce interference with nearby systems

## Directional Flat Panel Antennas

- Higher gain smaller size and improved efficiency for higher frequencies (5GHz +)
- Linear or circular polarisation
- For monitoring or signal denial

## High Power Ultra-Wideband Directional Antennas

- Multiple frequencies in single unit
- 5-10dBiC gain
- High power - 100W possible over wideband
- Circular polarisation

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