



C2 and ISTAR Data Links

Ultra offers secure robust Data Links for ISTAR (Intelligence, Surveillance, Target Acquisition and Reconnaissance) and Command and Control (C2) of airborne platforms. These are suitable for control of air vehicles and sensors, communicating a variety of imagery such as infra-red, electro-optic and Moving Target Indication (MTI). They incorporate fast frequency hopping and spread spectrum techniques to ensure highly reliable and safe communications operating across the RF spectrum up to several GHz.

High Integrity Data Link

The High Integrity Data Link (HIDL) provides robust control of multiple Unmanned Aerial Vehicles (UAVs) simultaneously. Other features include over the horizon operation by means of radio relay, and a precise launch and recovery data link suitable for UAV operation from confined areas such as ships. HIDL overcomes RF interference, deliberate jamming and RF multipath effects, i.e. fading, particularly important when used in a hostile RF environment.

HIDL provides safe operation in line with the latest thinking on requirements for flying UAVs in civil airspace. HIDL has now been selected for the UK's WATCHKEEPER tactical UAV programme and is scheduled to form the basis of a NATO STANAG in its own right.



The High Integrity Data Link's flexible installations



Ultra
ELECTRONICS



Narrow Band Data Link System (NDLS)

Ultra have contracted by Cubic Defense Applications to supply the NDLS for the UK's Airborne STand Off Radar (ASTOR) programme. This data link provides Moving Target Indication (MTI) in near real-time, using secure and robust broadcast communications in the KU Band to a number of Ground Stations simultaneously.

NDLS is a development of the US JSTARS' Surveillance Control Data Link (SCDL).

Tactical/Universal Control Station

Contracted to MoD, Ultra has supplied a sub-set of the Tactical Control Station. Originally designed by the Naval Surface Warfare Centre (NSWC), at Dalghren, USA. TCS is intended to be the standard for UAV ground control stations.

The Ultra Universal Control Station is in use as a simulator at the UK Land Based Test Facility at Portsdown West. Ultra has also supported NATO studies to define a data distribution and airborne data link interfaces (STANAG 4586) for the Universal Control Station.



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