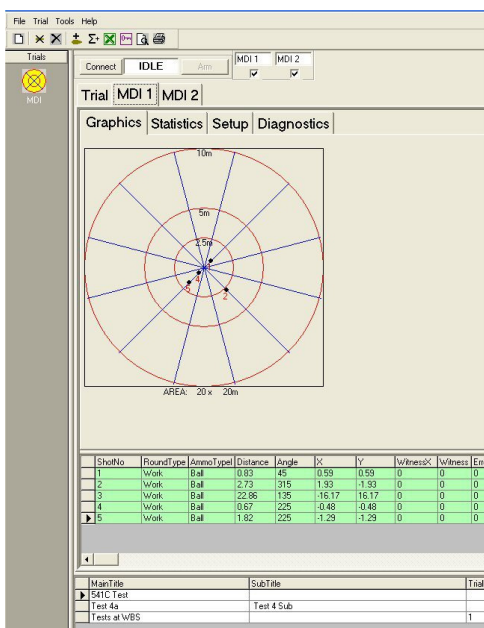


## MISS DISTANCE INDICATOR (MDI) Type 410 (ACOUSTIC TYPE)



The MS Instruments (MSI) airborne Miss Distance Indicator (MDI) Scoring System provides real-time assessment of live firings in the Air-to-Air and Ground-to-Air training environment. The MDI is normally supplied as part of the MSAT-500/NG Aerial Target System. MSAT-500 is a reliable training tool assuring a solution to cost effective training budgets for air defence gunnery, missile firings and weapon operator training. Operational over both land and sea MSAT-500 can be utilised to simulate the threat of attacking enemy aircraft, missiles and RPVs/drones.

The MDI can also be provided in towed-array format.



Ground Station Software

The MDI detects all supersonic calibres, and can typically sense the projectile out to a range of up to 30 metres. When a supersonic shell passes through the sensing zone, its generated shock wave is picked up by the sensors mounted in the front nose cone. The airborne processor calculates the distance and sector information and transmits this data to the transceiver at the Ground Station, where it is decoded and sent to the computer. The computer processes the data and displays and records the information in an easy to understand interface. Missions can be recorded together with ballistic and any other data and a print out can be made for post firing analysis.



Ground receiver

The MDI Scoring System is made up of 4 main components: the sensor array, airborne transceiver, ground based transceiver and its separate computer. The system is robust, easy to use and maintain. The airborne equipment is waterproof and maintenance free. Except for the computer, which must be housed in a normal controlled environment, the rest of the ground equipment is completely weather proof.

### SPECIFICATION

#### Miss-Distance Indicator

Sensing Range	10 – 30 metres according to calibre. Supersonic projectiles
Sensor type	Piezo electric transducer
MDI unit transceiver weight	2.75 kg
Telemetry frequency	450 MHz UHF band (according to customer)
Antenna type	High gain dipole
Operating voltage	12 volt DC

#### Ground Station

Transceiver weight	2.2 kg
Telemetry frequency	450 MHz UHF band (according to customer)
Antenna type	High gain dipole or yagi
Operating Voltage	220 volt AC

Computer	Laptop with proprietary software and operating system
Power	Self powered (rechargeable battery)