



*Smart, Robust, and Versatile*



## MISS DISTANCE INDICATOR TYPE 410

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, bringing versatility to the training field.

## VERSATILITY TO THE TRAINING FIELD

### HARDWARE/SOFTWARE

- **Sensor Array** mounted in the front nose cone detects shock wave generated when a supersonic projectile passes through the sensing zone.
- **Airborne Processor** calculates the distance and sector information and transmits this data to the transceiver at the Ground Station.
- **Ground Station** decodes distance and sector information and sends it to the computer.
- **Computer** processes the data, then displays and records the information in an easy-to-understand interface.
- **Post-Firing Analysis** can be done on the print-outs. Missions can be recorded together with ballistic and any other data.

### SPECIFICATION

HARDWARE	
<b>Sensing Range (MDI)</b>	10m-30m according to calibre (supersonic projectiles)
<b>Sensor Type (Indicator)</b>	Piezoelectric transducer
<b>Computer</b>	Laptop with proprietary software and operating system
POWER/COMMS	
<b>Power (MDI)</b>	Built in rechargeable battery 12V DC
<b>Power (Ground Station)</b>	110/230V AC
<b>Antenna Type (MDI)</b>	High gain whip
<b>Antenna Type (Ground Station)</b>	High gain dipole
<b>Telemetry Frequency</b>	450/900MHz UHF band (according to customer)
ENVIRONMENT	
<b>Operating Temperature Of MDI</b>	-10 - 50 °C 14 - 122 °F
<b>Humidity</b>	100%
DIMENSIONS	
<b>L x W x H (Indicator)</b>	220mm x 120mm x 80mm [ 8.7Inc x 4.7Inc x 3.1Inc ]
<b>L x W x H (Ground Station)</b>	220mm x 120mm x 80mm [ 8.7Inc x 4.7Inc x 3.1Inc ]
<b>Weight (MDI)</b>	2.75kg [6.06lbs]
<b>Weight (Ground Station)</b>	2.2kg [4.85lbs]

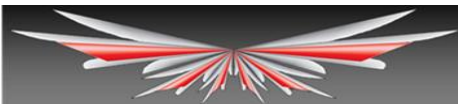
## USED WITH



Nimbus Type 155



Remote-Control Transceiver



## MS INSTRUMENTS Range Consultancy

*Precision, Expertise, Quality*

- Professional Bespoke Range Designs
- State-of-the-Art Product Rendering
- Only the Latest Standards



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The information in this document is correct at the stated time. MS Instruments Ltd has a policy of continuing development and reserves the right to make design changes/improvements to the products.