



Instant, Effortless Precision



ACOUSTIC TARGET TYPE 530

The MSI Acoustic Target Type 530 provides developers, manufacturers and testing organisations with an accurate means of checking the performance of weapons and ammunition outdoors by measuring the co-ordinates of shots passing through the target area.

This precision electronic target accommodates calibres from 4mm to 120mm, giving the capability of measuring the performance of the full range of weapons from small arms to tank guns.

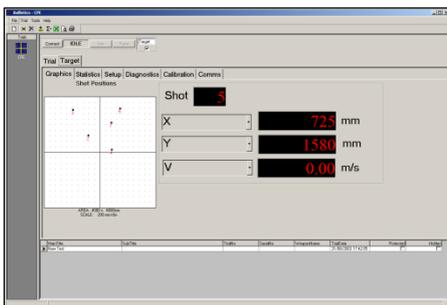
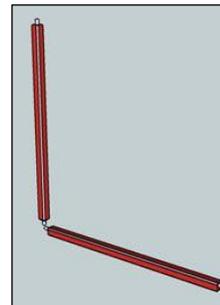
The system replaces paper, canvas, or wood witness targets, and thus removes many associated problems. As such, use of this target dramatically reduces the need for repeated access to the target area, the errors in manual measurement, and the loss of data due to measurement failure.

The elimination of these problems improves efficiency and safety, saves time and effort, and therefore saves money. The MSI Acoustic Target Type 530 is an easy piece of equipment with which to work, and makes weapons testing faster and better.

IMPROVES EFFICIENCY AND SAFETY

Simple and Versatile Equipment:

- Accommodates a variety of ammunition
- Suitable for both indoor and field trials
- Provides a range of possible calculations

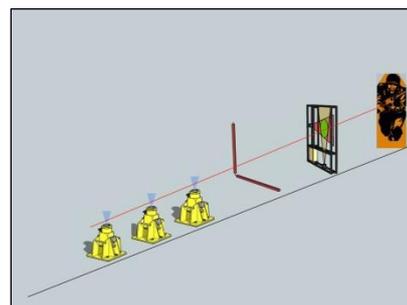


Accurate and Easy Data Recording:

- Instant graphical representation of data
- Results can be stored and graphically printed
- Comprehensive, user-friendly software

Time and Effort Saving:

- Automatic self-check every session
- Requires little maintenance
- Only one installation required



HARDWARE

- **Two orthogonally mounted bars carrying sensors at their ends** detect the shock wave generated by any supersonic projectile passing through the square area defined by the bars.
- **Signals** generated by the sensors are used to calculate the XY coordinates of the position of the projectile.
- **Sensor bars are normally mounted on a stand**; in the 1m and 2m options, the vertical bar can be folded down on to the horizontal sensor bar for ease of transport and stowage out of the line of fire.
- **The bars may be mounted to a wall and to the floor or ceiling** in suitable locations, with both cases reducing the possibility of accidental damage.
- **Acoustic lining** is advised in tunnel ranges when tests are carried out with automatic weapons, to eliminate false responses from echoes.

SOFTWARE

- **Shot positions are instantaneously displayed** on a graphical representation of the target area together with coordinate data and a running total of shots fired.
- **Results can be stored** on completion of each firing test.
- **A graphical printout** can be made for subsequent analysis.
- **A comprehensive user-friendly software package** gives a graphical display of the shot locations and provides a range of mathematical and statistical calculations that can be applied to shots.

SPECIFICATION

CONFIGURATIONS	
Mounting Arrangement	Wall-mounted or free-standing 1m and 2m targets
Power Supply	Via Processor Type 663 or Line Receiver Interface Type 565
Output Data	True XY Cartesian coordinate data
HIT SENSING	
Projectile Velocity	Mach 1.3 minimum to Mach 5 at target
Hit Frequency	Up to 6000 rpm for 1m target
Active Target Area	1m x 1m, 2m x 2m, and 6m x 3m
Calibre Type	All supersonic natures
Measurement Accuracy	±5mm in still air conditions for 2m target

ENVIRONMENT	
Operating Temperature	-10°C - +60°C [+14 °F - +140 °F]
Humidity	The unit is fully sealed against the ingress of moisture
Rain	The system operates in light rain
Wind	Fluctuating wind at the target affects accuracy

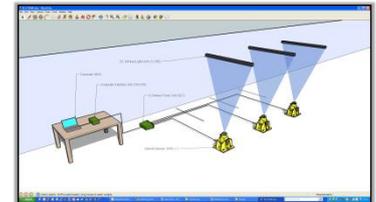
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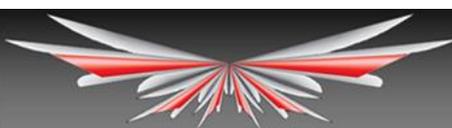
Remote-Control Transceiver Type 573



Range Processor Type 663



Projectile Velocity Measurement System



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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