



Precision Shooting for All Ranges



LANE DISCRIMINATOR TYPE 293-001

The MSI Lane Discriminator can be supplied alongside the company's precision shooting systems to allow objective and faultless scoring.

The unit, comprising high-performing acoustic sensors has been developed to guarantee unimpeachable hit counting and to eliminate wrong scoring on multi-lane ranges in standing, prone-supported, prone-unsupported, and kneeling positions. The shot sensor can be placed on the ground (unimproved terrain) at the front of the firing position and connected to the range supplied power and signal sources.

The rugged and weather resistant design guarantees trouble-free functionality under difficult environmental conditions. Delivering immediate feedback, the MSI Lane Discriminator is ideal for all modern ranges.

OBJECTIVE AND FAULTLESS SCORING

SPECIFICATION

CONFIGURATIONS	
Power Supply	Interface box at the firing position / Battery
Power	120 / 240 VAC or as required
ENVIRONMENT	
Operating Temperature	-25°C - +72°C [-13 °F - 161.6 °F]
Enclosure Type	IP 67
DIMENSIONS	
L x W x H	620mm x 190mm x 60mm [24.4in x 7.48in x 2.36in]
Weight	1kg [2.2lbs]

THEORY OF OPERATION

- **Shot sensors** always detect that a round has been fired from the firing point thus signalling the system that a round has been shot in that lane.
- **Two high-performing acoustic sensors** register the muzzle bang of a fired weapon.
- **Acoustic signal** of both sensors is recorded, then evaluated, and finally transmitted with an event specific time stamp to the Range Controller.
- **Predefined, adjustable distance** between the muzzle and the Shot Sensors is assuring only shots fired from this specific shooting position are counted valid, and is avoiding the registration of weapons fired on neighbouring lanes.
- **Electronically registered hit or miss** on our non-contact LOMAH system is the next recorded and time stamped event.

- **Shot recognized as valid** if both events were registered on the very same firing lane with a corresponding pair of time stamps.
- **On a lane where no shot was fired** at the shooting position, a registered hit of a target will be displayed and marked as invalid.

USED WITH



Box Target
Type 230-232



Location of Miss and Hit (LOMAH)
Type 240 - 243



Training Area Control Facility (TACF) Range
Control Software Type 272-001

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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.