

## CHAMBER TARGET



This precision target provides trainee and experienced shooters alike with a cost-effective and accurate training system. The visible target is normally the user's target outline, for example 10-ring or figure 11 targets.

The calculated position of the shot is transmitted down the range cabling to the Range Processor from where it is also sent to the Firing Point Monitor (FPM) for display to the firer.

The target replaces paper, canvas or wood witness targets and thus remove the problems associated with:

- The need for repeated access to the target area for the retrieval of information.
- The loss of data caused by the failure to measure all shots because of overlapping of rounds, particularly in the case of automatic fire.
- The errors made and time taken in manual measurement and analysis of shots fired.

The elimination of these problems improves efficiency and safety, saves time and effort, and therefore saves money.

In a typical system, the data recorded by the Chambered Target is fed from the target to an MSI Processor Type 663, a PC compatible unit, for storage, display, analysis and printout.

The Type 663 is supplied with a comprehensive user-friendly software package, which gives a graphical display of the shot locations and zeroing information. On completion of each firing test the results can be stored on disk and a graphical printout obtained.

The target can be configured into systems with a single processor addressing 12 or more targets. This target is equally suitable for indoor and outdoor use. Once installed, the systems require little maintenance and a self-generated functional check is carried out automatically at the beginning of each session.

The Chambered Target consists of a pair of sensor arrays in a delta format, mounted with a set distance between them, which sense the shockwave generated by the projectile. The signals generated by these sensor arrays are used to calculate the position of the shot with respect to the target. The arrays are mounted inside a wooden framed target. Rubber is positioned around the frame to give a zero-wind detection system for the automatic sensors. This allows the acoustic sensors to operate in the subsonic as well as supersonic regions.

The rubber panel is continuous and may be rotated to allow re-use. Tests have shown that the target may be used for upwards of 3500 rounds before the material needs replacing.

## SPECIFICATION

<b>Active Target Area</b>	1.2m by 1.2m standard
<b>Measurement accuracy</b>	±1mm
<b>Projectile velocity</b>	Subsonic and supersonic projectiles
<b>Projectile calibre</b>	All small-arms calibres
<b>Rate of fire</b>	Up to 6000 rounds per minute
<b>Output data</b>	True X Y Cartesian co-ordinate data
<b>Power</b>	12v d.c. or 50v a.c. Safety Extra Low Voltage
<b>ENVIRONMENT</b>	
<b>Humidity</b>	The unit is fully sealed against the ingress of moisture
<b>Operating temperature</b>	-20 °C to +60 °C
<b>Wind and Rain</b>	The performance of the target is unaffected by normal ranges of wind and rain
<b>OPTIONS</b>	
<b>Radio link</b>	Using transceiver Type 573