

## BOMB SCORING SYSTEM TYPE 650



The MS Instruments PLC semi-automatic bomb scoring system uses electronic sensors attached to a manually-controlled sighting device to measure the bearing of a visible bomb or rocket strike. The sighting devices are situated in observation posts and the readings are transmitted, via a UHF telemetry link, to a Strafing Range Processor in the Control Tower.

Two such sighting devices, placed a known distance apart and a safe distance from the target, are used to give two separate bearings of the hit position. These are then used to calculate the point of intersection of the two bearings and thus the hit co-ordinate in relation to the aircraft approach track.

A sensor is attached to the underside of the sighting frame with a spindle that attaches to the pivoting arm on which the sighting device is mounted. After a bomb has been dropped, the user will locate the hit position using the sighting device. The sensor on the sighting device will convert the angular position of pivoting arm into a bearing that is displayed on the Bomb-Court Control Unit. After the user confirms the bearing with a single button press, this bearing is then transmitted to the Strafing Range Processor where, when combined with the other bearing from the paired sighting device, the position of impact is automatically calculated.

### SPECIFICATION

<b>General</b>		<b>Environment</b>	
Bearing resolution/accuracy	0.01 Degrees (approx.0.5m at 2000m)	Operating Temperature Range	0°C – 60°C
Power	12v DC		Governed by visibility
Sensor resolution	25 Bits (33 554 432)		
Communication	Cable or Wireless Link		
Transceiver Range	Up to 5km		
<b>Dimensions</b>	<b>Bomb-Court Control Unit</b>	<b>Transceiver</b>	<b>Sighting Device</b>
Height	120mm	94mm (without antenna)	200mm
Width	220mm	265mm (with antenna)	
Depth	140mm	204mm	500mm
		104mm	400mm
Weight	2.5Kg	1Kg	5Kg