

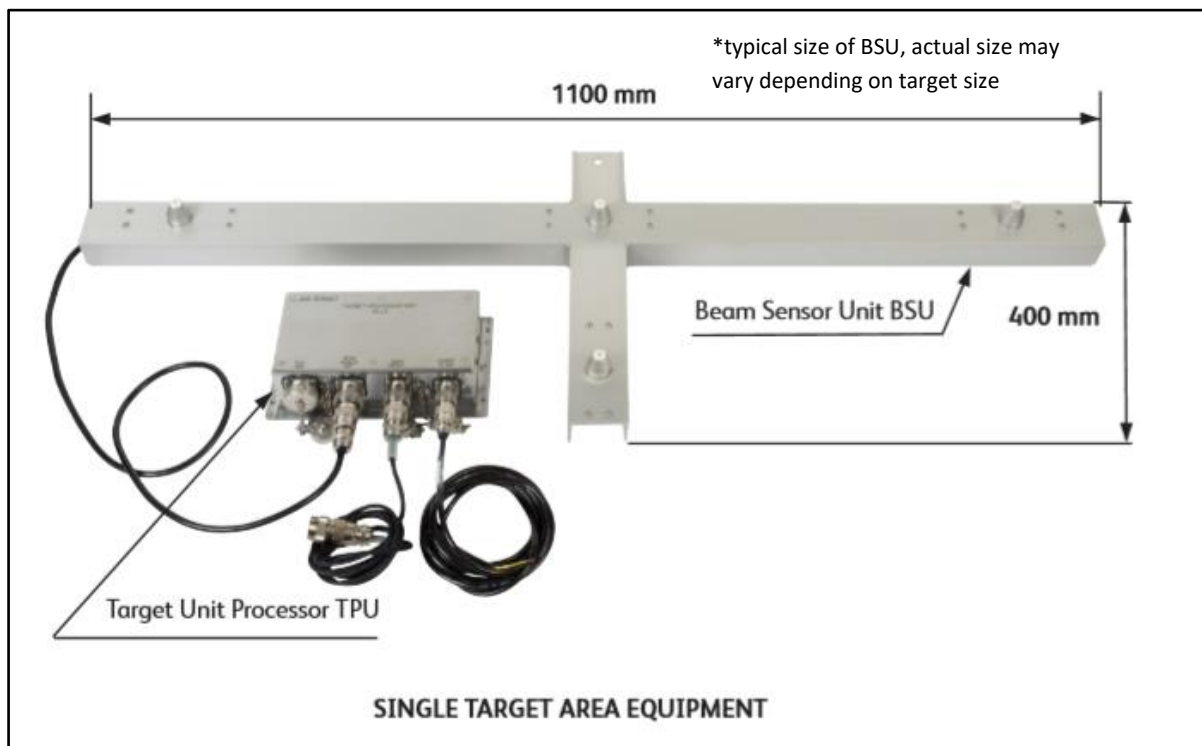
The Air To Ground (ATG) scoring system is intended to be used at Air To Ground firing ranges for scoring of supersonic projectiles. The target area equipment consists of a Beam Sensor Unit BSU, a Target Processor Unit TPU, an antenna and a 12 VDC battery. The target area equipment is placed in front and below the target, and behind a protection wall (not included). The pressure sensors of the BSU detects the shock wave from a passing supersonic projectile. The scoring data is transmitted via radio to the Control Station Equipment (CSE) in real- time.

The scoring data is used by the CSE when calculating the scoring result. The scoring result is graphically displayed on monitor as x and y coordinates. The salvo centre, mean miss distance, and total number of scored rounds are displayed together with the graphic picture. The scoring result can also be displayed in tabular form round by round. A print-out of

the scoring result is also possible. The scoring result is stored in a data base. The Control Station Equipment can as an option receive scoring data from a number of configured targets.

**PERFORMANCE/CHARACTERISTICS**

Scoring capacity	6000 rounds per minute
Scorable calibres	7.62 mm to 5" +, and missiles
Scoring accuracy	One calibre, provided the attacking angle is close to zero
Target setup	<ul style="list-style-type: none"> <li>• Customizable target size</li> <li>• Works with one or several targets.</li> </ul>
Scoring result presentation	In x and y coordinates – salvo centre, total number of scored rounds. Customizable targets and sizes.
Other	Efficient data storage and organisation. Possibility to import and export data for offline storage and analysis.



### GENERAL BSU (BEAM SENSOR UNIT)

Power supply	Rechargeable NiMH
Battery operation time	Min 12h at +25°C, 12Ah battery
Supply voltage	12VDC
Operating temperature	-30°C to + 55°C
Storage temperature	-40°C to + 70°C
Size	Variable depending on target size
Total weight	Approx. 3.0kg

### TELEMETRY DATA UNIT (TDU)

Connection to computer	USB (Ethernet or Bluetooth available upon request)
Power supply	100/240 VAC or 12 – 32 VDC
Antenna connector	TNC – type, female
Number of receivers	Up to 4
Size	225 x 210 x 75 mm
Weight	2.1kg
Muzzle microphone input	Optional
Standards	MIL-STD-810G, IEC 60529

### TELEMETRY

Frequency (down-link)	330 - 473 MHz (one channel per target, max. 4)
Frequency (up-link, optional)	330 - 473 MHz (one per system)
Modulation type	4-level FSK
Transmission Power	1 W
Baud rate	9600 baud
Sensitivity	-116 dBm
Standards	EN 300 113-2 EN 301 489-1, -5 EN 60950-1 FCC CFR47 PART 90

### SOFTWARE

Present scoring results:	<ul style="list-style-type: none"> <li>miss distance and sector of each round</li> <li>mean distance</li> <li>salvo centre</li> <li>number of rounds</li> </ul>
Can handle different calibres, altitude and shooting distances	
Creating, storing and retrieving of standard shooting scenarios	
Results can be printed as listings or graphically	
Handling of uplink functionality (optional)	