

# Telescope Precision Tracker

The Telescope system, is now enhanced and manufactured by SABRE Ballistics. It was originally developed by Milligan Electronics from a UK MOD design.

In many applications, the SABRE Telescope replaces the Kinetheodolite and TV tracker, and is an economical high precision automatic tracking system. Typical applications include tracking and calibration of:

- Guided missiles / munitions
- Base bleed / tracer ammunition
- Position of burst and time of flight
- Miss distance measurements
- Building dynamics / sway
- Instrument / Microwave Landing Systems

No particular skill is required to operate the system, the only provision being that the target is kept within the field of view of the tracker.

The tracker may be either set up on a fixed tripod or optionally on a digitised mount and any deviation of the target will then be measured and recorded.

The Telescope consists basically of a rotating mirror tracker which enables a radiant source to be tracked and measured. The tracker sensors are enabled and monitored by an external high performance Pentium processor system. The information from the tracker is converted in the computer into azimuth and elevation bearings of the target with respect to the optical axis of the tracker.

The output of the Telescope system can be plotted or processed in user applications. For most applications, the Tracker is designed to measure the position of the target 16 times per second

In some applications, the Tracker is placed in a hazardous area. A remote display and control facility using a rugged Notebook PC may then be used.



**HIGH PRECISION**

**IMMUNE TO SPURIOUS ECHOES**

**LONG RANGE PASSIVE SYSTEM**

**PROJECTILE / MISSILE TRACKING**

**BUILDING SWAY MEASUREMENT**

**POSITION / TIME OF FLIGHT OF BURST**

**ILS / MLS CALIBRATION**

**BEAM RIDING APPLICATIONS**

**MISS DISTANCE INDICATION**

**SABRE**  
**Ballistics**