Sub-Compact Velocity Screen System

The **SABRE Ballistics** Sub-Compact Velocity Screen is a framework and sensor system for measuring the velocity of small calibre projectiles in a small firing window. It uses two or more optical sensors spaced a known distance apart to measure projectile transit time over a known measurement baselength.

To keep costs down and obtain optimum precision, the system is pre-assembled with all sensors aligned and spaced apart. Low cost versions have sensors placed on two mounting beams, but a precision version is available. The Precision version is enhanced by the extremely stable carbon fibre spacer bars as shown in the photograph. The variation of spacing is superior to any conventional metal (steel or aluminium) and similar to Invar or equivalent guaranteeing optimum precision, even on a short baselength.

Rugged and modular in construction, the Screen, can sense projectiles smaller than 4mm calibre travelling at over 1000 metres per second. Screens and light units run are powered by 12v DC for additional range safety.

IR emitting diodes are used to provide maximum projectile resolution and a high degree of immunity to physical shock. To filter out unwanted disturbances such as air turbulence, shock wave or blast effect, there is a sensitivity control.

This unit is not designed for tracer ammunition. Please refer to other SABRE sensors if tracer is to be fired (or all weather operation with larger calibres is required etc).

These features, combined with the long life of the photo-diode sensors, will provide trouble free operation over long periods of time in typical indoor range operating environments. It is designed to operate with a SABRE Integrated Range Instrumentation System (IRIS) - a PC based chronometer.

SILICON SOLID STATE MODULAR CONSTRUCTION

COMPLETE WITH FRAMEWORK

OPTIONAL CARBON FIBRE SPACERS FOR HIGHEST PRECISION

SENSITIVE TO OBJECTS SMALLER THAN 4MM CALIBRE

VELOCITY RANGE FROM 30M/SEC TO MORE THAN 1000 M/S

OPERATES IN DAYLIGHT

LIGHTWEIGHT AND PORTABLE