

Solid State Sky Screens (Milligan Compatible)

The SABRE Ballistics Solid State Sky Screens use the latest sensor and electronic design techniques to measure projectile velocity in horizontal and elevation firing tests. Calibres from 4mm upwards, including mortars, are catered for.

These sensors are compatible with existing Milligan H and E type screens (which are NATO Stanag 4114 approved including the earlier transistorised PCC screens), operating on a standard 4 wire cable and even Milligan Remote Control Units or Radio Links. The detector screens are housed in rugged weather-proof castings and may be operated in any prevailing climatic conditions. The units are delivered purged and pressurised with dry nitrogen. Sun shields are available to prevent extraneous light affecting the operation of the detector screen.

In the top of the casting is a flat glass window, below which is an optical system with a slit. Light entering the slit is focussed by a lens on to a solid state sensor. A projectile passing above the screen interrupts some of the light falling upon the sensor and produces an electrical pulse which is amplified by electronic circuits in the detector screen.

Compared to the NATO approved Milligan Sky Screen these screens also have superior performance under DC incandescent lights.

Two such detectors placed a known distance apart are therefore able to generate pulses which delimit the transit time of a projectile over the given base length. These pulses are used by the SABRE Velocity and Firing Rate Analyser type 421 or Integrated Range Instrumentation System (IRIS) to calculate projectile velocity to high precision. In addition, rate of fire information together with all the projectile velocities are automatically recorded for bursts of fire.



STATE OF THE ART SENSOR & ELECTRONICS SYSTEM

PRECISION VELOCITY SYSTEM

COMPATIBLE WITH 4 WIRE CABLES AND MILLIGAN / PCC SCREENS

RUGGED AND WATERPROOF

LONG OPERATING LIFE

EASY MOUNTING

EXCELLENT INDOOR / OUTDOOR PERFORMANCE

INTERNAL SLIT ILLUMINATION FOR NON-INVASIVE CALIBRATION

DC LIGHT LEVEL MONITOR

SABRE
Ballistics