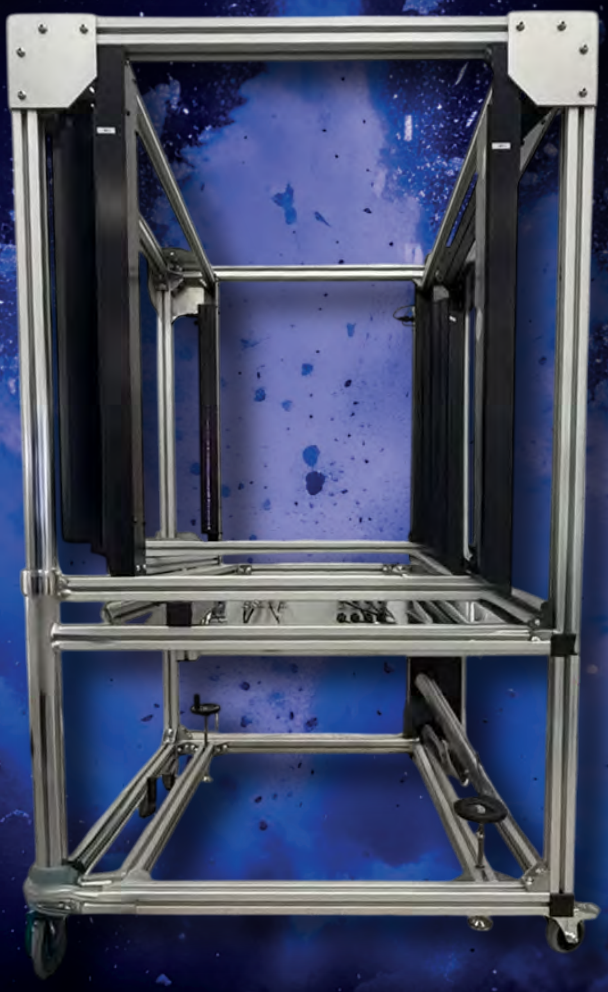
SYDOR TECHNOLOGIES



OPTICAL TARGET

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES

- Accurate (x,y) shot position detection for dispersion measurement as well as velocity measurement
- Includes local processor unit for calculating (x,y) position & velocity
- Interfaces with Sydor IRIS (Integrated Range Instrumentation System) software for data
- Can combine with supplemental velocity measurement to calculate Ballistic Coefficients

APPLICATIONS

- Precision/Accuracy Calculations
- Subsonic Ammunition Testing
- Weapon Testing

ABOUT THE OPTICAL TARGET

The Sydor Optical Target is designed to replace paper targets and facilitate reporting of shot dispersion by accurately measuring the x,y position of small to medium caliber projectiles which are traveling at speeds ranging from subsonic to supersonic velocities. The Sydor Optical Target is manufactured with an operational area of 1 m square.

The target sensors include several specially configured Sydor Compact 414 Velocity Screens mounted in an open aluminum framework that must be protected from stray rounds or ricochets. The unit is designed for indoor use which may include installations outdoors that are covered and dry. The power supply included with the unit converts AC power into the 24 VDC required to properly run the velocity screens as well as the Local Processor Unit (LPU). The LPU processes all signals locally to determine the projectile velocity and position (x,y) and communicates these calculations to the Sydor Integrated Range Instrumentation System (IRIS) software for storage, display and statistical processing.

PRODUCT SPECIFICATIONS

- Operational Target area: 1 x 1 meter (or larger, depending on configuration)
- Minimum Projectile Size Detected: 4.5 mm
- Data Output: Velocity and X,Y coordinates of each shot (with Local Processor Unit & IRIS)
- Accuracy: <+/- 5 mm with normal projectiles
- Power: 110/230 VAC, 50/60 Hz
- Operating Temperature Range: 0 °C to 40 °C
- Humidity: 10 to 90% non-condensing

COMPLEX MEASUREMENTS—CRITICAL RESULTS