
SYDOR
TECHNOLOGIES
BALLISTICS
TESTING SOLUTIONS
POLICE
COMPLEX MEASUREMENTS—CRITICAL RESULTS

We provide solutions for complex applications including, but not limited to:

Armor Testing



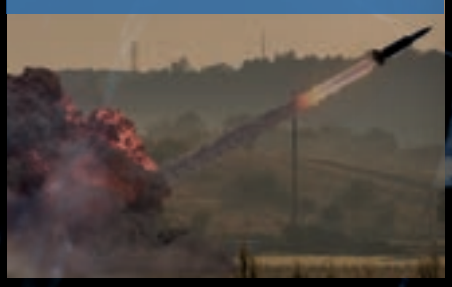
Impact on Vehicle Armor



Ballistic Gel Testing



Trajectory Tracking



WHAT WE DO

Sydor Technologies provides custom, comprehensive ballistic testing solutions for defense, security, science & commercial product development. We provide “turn-key” solutions that conform to global quality standards. Our expertise extends beyond the equipment; we consult or deliver project specifications, range designs and construction, containerized ranges, installations, technical support & training.

EXPERIENCE COUNTS

With more that 30 years of experience in the field of ballistic and impact science, we’ve provided world-class ballistic & impact testing systems and components to customers in over 65 countries around the world. We understand the need for accuracy, repeatability, compliance & meaningful results.

A RANGE OF EXPERTISE

We have unparalleled expertise in manufacturing and installing range hardware and complete testing & analysis solutions in compliance with NATO, ISO, CIP, SAAMI NIJ, ABCA and CAST quality standards. In addition to setting up various types of land-based ranges and facilities, we also provide complete airborne and marine scoring systems.

Resistance Testing



Performance Evaluation



COMPLEX MEASUREMENTS—CRITICAL RESULTS

HITTING THE MARK: GETTING THE DATA YOU NEED

Ballistics and impact testing go well beyond targets and testing. Sydor Technologies delivers complete, integrated solutions to capture the mission-critical results you need. Whether you're evaluating weapons and ammunition, testing armor performance, confirming air-to-ground accuracy, or requiring advanced ballistic imaging and yaw measurement, we provide the data that drives confident decisions.



GLOBAL FOOTPRINT

Sydor Technologies is dedicated to enabling the most demanding measurements, from a speeding bullet to a single photon. Our comprehensive, integrated solutions support ultrafast imaging, ballistic and impact testing, and custom electronics and electro-optics across more than 60 countries. As a trusted partner, we solve novel technical challenges with innovative solutions, and we are personally committed to advancing the future of complex measurement technology.

COMPLEX MEASUREMENTS—CRITICAL RESULTS

OUR PRODUCTS

FIRING SYSTEMS

Deliver controlled projectile launches to assess performance, accuracy & safety. Systems replicate real-world scenarios while capturing critical data such as muzzle velocity, chamber pressure, trajectory and dispersion. The results verify reliability, support standards compliance and guide design optimization

MEASUREMENT SYSTEMS

Capture detailed ballistic characteristics such as velocity, trajectory, spin, drag and impact behavior through high-speed sensors and optical technologies. The data provides actionable insights for weapon development, forensic analysis & quality control.

IMPACT SYSTEMS

Measure penetration, deformation, energy transfer and material response at the moment of impact. The results validate armor effectiveness, support wound ballistics research, and drive the development of safer, more reliable protective equipment.

COMPLEX MEASUREMENTS—CRITICAL RESULTS

OUR PRODUCTS

RANGE SCORING

Designed to deliver accurate, real-time assessment of weapon effectiveness across a wide spectrum of air & ground-based munitions. Each system provides precise impact detection, automated scoring, and immediate feedback to support interactive training, performance optimization & post-mission analysis.

DOPPLER RADAR SYSTEMS

Ideal for in-barrel, muzzle and free-flight analysis, our advanced continous-wave doppler radar solutions provide precise velocity measurement in ballistic & dynamic testing. Harness accurate speed tracking up to over 1,000m/s with optimized antennas spanning 10 & 35Hz frequencies.

SOFTWARE SYSTEMS

Engineered to evaluate & verify the performance of scoring and anaylsis software under controlled, repeatable conditions. Purpose-built to ensure compliance, accuracy and traceability, these systems modernize the testing process, replacing manual workflows with automated, data-driven validation

COMPLEX MEASUREMENTS—CRITICAL RESULTS