SYDOR TECHNOLOGIES



MOBILE ARTILLERY SCORING SYSTEM

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES & BENEFITS

- Accurate impact point detection for subsonic munitions
- Targets monitored by two GPS enabled HDTV cameras
- Secure wireless transmission of video & data
- Automatic scoring with manual override
- Small senors for ease of protection
- Ability to run on solar power or battery back-up enable remote use
- Training mode with simulated impacts

ABOUT THE MOBILE ARTILLERY SCORING SYSTEM (MASS)

The Mobile Artillery Scoring System (MASS) is designed for determination and instant feedback of the impact point of bombs, rockets and/or artillery rounds.

The system mobility is designed to be easy to use and maneuver via trailer or pick-up truck mounted equipment. Each trailer is self-contained for the cameras, mast system, battery power and storage. The trailers can be deployed safely away from the target area and can be quickly moved for different target blast radiuses. An operator located within 5 km controls the operation of the scoring system.

After trailer placement, a semi-automatic calibration routine is run. Then the operator can adjust each camera and zoom in to cover the target area.

The video from the high definition cameras is securely transmitted to a portable control point where the operator views the scenes on a single split screen monitor or dual monitors.

Specifically designed image processing software will detect and triangulate the impact point, and return fast feedback with the impact GPS coordinates. Both live rounds and practice rounds that generate video signal (smoke or ground burst) can be detected.

The system computes the real-world position of the impact and displays it to the operator in many selectable formats including: clock-face, bearing & distance from the target center, overlay on a digital map, GPS and logs the release and flight characteristics with the displayed data. The data is then maintained or sent to a server. A short clip of the impact video is stored.

For rockets, individual rocket impact points and the centroid of volley splash can be computed depending on the individual rocket launch delay interval.

MASS is a partner system to the Acoustic Triangulation System (ATS) which detects the impact points for strafing. Camera/video solutions are available to provide a complete Air Weapons Scoring System (AWSS).