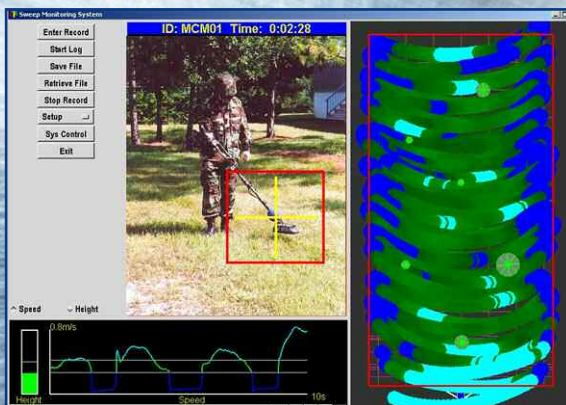


SWEEP MONITORING SYSTEM

LIVE TRAINING FOR MINE LOCATING OPERATIONS



The SMS tracks the movement of handheld mine detection wands using an advanced video tracker to provide operator training and proficiency measurements independent of detector operation. The “target” is a brightly colored ball, which is mounted atop the detector. The SMS is programmed to track the movement of this target through space continuously and in near-real time. The SMS tracker computes a location for the ball 30 times per second. Operator performance is displayed in real-time on a computer display. From this positional data, the SMS measures parameters essential to proper use of the mine locating sensors. The complete system packs into two rugged transit cases for transportation, storage and portability.



SYSTEM FEATURES:

- Suitable for use with all handheld mine detector wands; ANPSS-12, HSTAMIDS, Mine Lab F1A4 and others
- Continuously measures detector sweep speed, height above ground, coverage gaps and area coverage
- Coordination with detector audio output for location of buried ordnance
- Easy, tool-free set-up and calibration
- Simple to use graphical user interface
- Place physical (simulated) or virtual mine arrays
- Store trainee performance for playback
- Flexible operation for broad training utility
- Rugged construction for outdoor use

This product or portions thereof is manufactured under license from Carnegie Mellon University

GENERAL DYNAMICS
Ordnance and Tactical Systems

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Approved for Public Release 08/30/05



Sweep Monitoring System Specifications

Training Lane Area:

Military Configuration: 2 meters x 25 meters
(6.5 feet x 82 feet)

Commercial Configuration: 2 meters x 7.5 meters
(6.5 feet x 25 feet)

Input Power Requirements:

110VAC / 220VAC

24VDC (military configuration only)

Environmental Limits:

Vibration: Random per MIL-PRF-28800, Class 1, Sinusoidal: MIL-STD-810C, Method 514.2

Shock: MIL-STD-810E, Method 516.4, Operational to 20 g's

Operating Temperature:

Military Configuration: -29°C (-20°F) to 50°C (122°F)

Commercial Configuration: 0°C (32°F) to 50°C (122°F)

Humidity: 10 to 80% relative, non-condensing

Dust: Removable, serviceable filters on cooling air inlets and discharge

Rain: MIL-STD-810F, Section 506.4 Procedure III (Operational)

EMI: FCC, Part 15 Class A. Designed to meet CE EMI Requirements

Complete System Includes:

- Rugged SMS Computer and all required software,
- Camera Tripod (foot pads and ground stakes included with military configuration)
- Upper and Lower Camera Assembly
- Upper Camera tilt control articulation (military configuration only)
- SMS interface cable harness assembly
- 110VAC / 220VAC power cable
- 24VDC power cable with NATO Slave connector (military configuration only)
- Tracking balls; orange and purple color
- Audio Speaker
- Calibration Tape

Detector wand and inert mine simulators not included with SMS System

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