

## AN/PSS-14 TRAINING SET INCLUDES: SWEEP MONITORING SYSTEM (SMS) TRAINING TARGET SET (TTS)



Sweep Monitoring System shown with tripod, with tracking cameras mounted top and bottom, cabled to instructor's base station computer.



AN/PPS-14 Training Target System

**Training Category/Level Utilized:**

Ordnance/Level 1

**Logistic Responsible Command, Service, or Agency:**

PEO STRI

**Source and Method of Obtaining:**

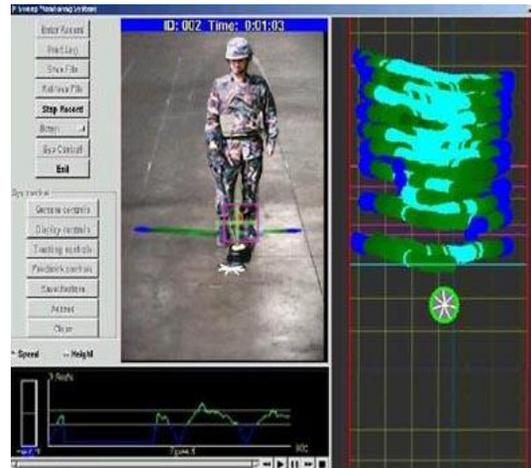
Not generally available for issue (limited production)

**Purpose of Trainer:**

The AN/PPS-14 Training Set includes the Sweep Monitoring System (SMS) and the Training Target Set (TTS) and is used to train personnel assigned to a mine detection mission. The AN/PPS-14 Training Set supports New Equipment Training (NET), institutional training, and unit sustainment training. The SMS is a camera-based training tool that assists student-operators in acquiring and maintaining the skills required to properly employ the AN/PPS-14 Mine Detecting Set. The SMS provides real-time audio and visual feedback to the instructor and operator regarding lane coverage, sweep speed, and sensor head height.

**Functional Description:**

The SMS consists of a ruggedized base station computer, a tripod with two tracking cameras and speaker, and an ultra-lightweight optical target mounted atop the AN/PPS-14 Mine Detecting Set sensor head. Operator performance is displayed in real-time on the computer's display, and performance errors are announced in real-time through the speaker. Operator performance data is also stored for later review. The SMS is configured for a 1.5m



Instructor's view of base station computer (displays lane coverage, sweep speed, and sensor head height)

x 15m lane, replicating the combat mission scenario selected for the countermine training, mounted atop the AN/PSS-14 sensor head.

Virtual mines from the SMS database may be placed on the computer display to coincide with the placement of physical targets buried within a lane (such as the AN/PSS-14 Training Target Set, NSN 6920-01-554-5658, DVC 05-105/1), or used without physical counterparts, as needed.

**Physical Information:**

Tripod Storage Container, with Contents:  
Weight 69 lb.  
Length 19.5 in.  
Width 60 in.  
Height 12.5 in.

Base Station Storage Container, with Contents:

Weight 118 lb.  
Length 27.5 in.  
Width 37 in.  
Height 19.5 in.

Tripod, Deployed:

Weight w/o main cable 36.5 lb.  
Weight w/ main cable 43 lb.  
Height 118.5 in.  
Footprint 78 in. dia.

Base Station Computer, Deployed:

Weight with AC cable 36 lb.  
Weight with DC cable 40 lb.  
Length 20 in.  
Width 17.5 in.  
Height 13 in.

Optical Target Sphere:

Weight <1oz.

**Equipment Required, Not Supplied:**

AN/PSS-14 Mine Detecting System, with ancillary equipment.

**Special Installation Requirements:**

(Information not available)

**Power Requirements:**

24/120/220VAC external power source

**Applicable Publications:**

TM 5-6665-373-12&P Manual for the AN/PSS-14 Mine Detecting Set, and TTS

TB 5-6665-412-10, Quick Reference Guide for the SMS and TTS

TM 5-6665-412-13&P, Operator and Field Maintenance Manual for the SMS and TTS

**Training Resident Courses at:**

USA Engineer School, Fort Leonard Wood:

CMF 21, CMF 21 BNCOC, Engineer Officer Basic Course (EOBC), and Engineer Captain Career Course (ECCC).

US Infantry School, Fort Benning:

CMF 11, CMF 11 BNCOC, ANCOB, Infantry Officer Basic Course (OBC), and Infantry Captain Career Course (ICCC).

**Reference Publications:**

FM 3-34.210. Explosives Hazards Operations

**Training Requirements Supported:**

Any personnel with a mine detection mission.