

IMPROVISED EXPLOSIVE DEVICE EFFECTS SIMULATOR, INCREMENT 1 (IEDES 1), PYROTECHNIC SCALABLE SIGNATURE DEVICE (PSSD)



PSSD (side view)



PSSD (bottom view)



PSSD (top view)

Training Category/Level Utilized:

Ordnance/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The Pyrotechnic Scalable Signature Device (PSSD)) is a major component of the IEDES 1 training system. The PSSD is designed to train key tasks of Explosive Hazards (EHs) defeat in support of full spectrum operations and conflicts including Homeland Security. EH defeat consists of the ability to predict, prevent, detect, classify, neutralize, mark, report, and record EH; and to protect personnel, equipment, and facilities from EH effects.

Functional Description:

The PSSD is capable of providing small through extra large signature effects, and firing multiple cartridges simultaneously (small - extra large). The PSSD is wirelessly initiated by the IEDES Module Control Unit (MCU) and Electronic Common Interface Device (ECID). It is capable of firing multiple iterations before requiring reloading. The PSSD has two removable/interchangeable 16 shot magazines. The pyrotechnic signature device will use type classified/material released pyrotechnic simulators; M30, M31A1. These pyrotechnic simulators provide a visual and aural signature. They are in the Army inventory and will not be provided as part of the kit. PSSD

provides a 30 second delay accompanied by a visual and audio warning signal to allow the operator to clear the area prior to PSSD arming.

Physical Information:

PSSD Dimensions: 16" x 10.5" x 11" Weight: 18 lbs.

Equipment Required, Not Supplied:

M30 and M31A1 pyrotechnic cartridges

Special Installation Requirements:

None

Power Requirements:

Rechargeable lead-acid battery: 12 volts, 7.5 AMPH

Applicable Publications:

Operators Manual: 05-6920-703-10

System Maintenance Manual: 05-6920-703-24& P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate in an environment where the Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.