



Radiac Set AN/PDR-75A PDR-75A

Description

The Radiac Set consists of a Computer Indicator (CP-696A), a carrying case and a power cable that allows the CP-696A to operate from a 24 Volt DC vehicular battery. The CP-696A is used to read the neutron and gamma doses from the Radiac Detector DT-236A. The range of detection is from .01 - 3000 cGy for gamma radiation and from .3 - 3000 cGy for neutron.

The Radiac Detector DT-236A is a personal dosimeter that is worn on the soldier's wrist. It detects neutron and gamma radiation from nuclear detonations and radiological contamination. It contains Optically Stimulated Luminescence (OSL) detector elements and a Radio Frequency Identification (RFID) chip.

When a determination of radiation exposure is required, the dosimeter is inserted into the CP-696A, which then displays the cumulative neutron and gamma dose. The CP-696A reads the radiation dose that was detected by the DT-236A. Each DT-236A contains a radio frequency identification chip (RFID). The results and time of read are stored on the RFID chip and in the CP-696A memory. The data may be recorded manually or may be downloaded via a USB port to a computer.



The basis of issue for the AN/PDR-75A RADIAC Set is 1 per Company or Company size unit. The DT-236A Radiac Detector is issued to each soldier in the Company.

Mission

Measure accurate dose from gamma and neutron radiation across the operational spectrum from natural radiation background to nuclear war.

Capabilities

Users

Reserves, National Guard Bureau, Civil Support Teams, USSOCOM, US Army

Status

Production and Deployment

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