Joint Chemical Agent Detector M4A1

JCAD M4A1

Description

The JCAD program employed an incremental acquisition strategy to develop a miniaturized, rugged, and portable point chemical agent detector that automatically and simultaneously detects, identifies, and alerts in the presence of nerve, blister, and blood chemical warfare agents. The M4 JCAD entered full rate production in September 2008 and was produced through FY13. The attainable JCAD Increment 2 capabilities within the JCAD Increment 1 objectives were incorporated into a product improvement of the M4 JCAD (M4A1). Production of the M4A1 JCAD will be used for wheeled vehicles, stand alone, and individual soldier applications. The JCADs are replacing the M8A1 and the M22 Automatic Chemical Agent Alarms (ACAA/ACADA), and the Chemical Agent Monitor (CAM) and Improved Chemical Agent Monitor (ICAM) and other legacy systems currently used by the individual services.

Mission

Protects U.S. forces by detecting, identifying, alerting, and reporting the presence of chemical warfare agent and toxic industrial chemical vapor.

Capabilities

- M4 JCAD will replace the M8A1 Alarm, M22 ACADA and the CAM/ICAM
- Realtime detection of nerve, blister, and blood agents
- Instant feedback of hazard (mask only or full MOPP)
- Stores up to 72 hours of detection data
- M4A1 JCAD with coms adapter will be fully compatible with the Common CBRN Sensor Interface (CCSI)

Users

Department of Homeland Security, Reserves, National Guard Bureau, Civil Support Teams, USSOCOM, US Navy, US Marine Corps, US Coast Guard, US Army, US Air Force

Status

Production and Deployment

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