

IAC Mission Success Stories



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CBIAC

Story 1

Story 2

XM279 Surface Sampler Probe

The CBIAC developed a surface sampling probe attachment for use with the Joint Service M22 Advanced Chemical Agent Detector and Alarm (ACADA) in support of the U.S. Army Soldier and Biological Chemical Command (SBCCOM). The XM279 is a Pre-Planned Product Improvement (P3I), and enables the ACADA to detect liquid chemical and environmental (CWA) present on equipment and environmental surfaces. The XM-279 can transfer agent vapor to other vapor detectors as well, including the Chemical Agent Monitor (CAM), the Improved Chemical Agent Monitor (ICAM), and the next generation Joint Chemical Agent Detector (JCAD).



[Continued on Story 1](#)

Biological and Chemical Warfare Online Repository and Technical Holdings (BACWORTH) Encyclopedia

Working with its users and DoD experts, the CBIAC recently published the BACWORTH Encyclopedia for distribution to U.S. Federal Government Agencies. Because of its content, the BACWORTH Encyclopedia is Export Controlled and For Official Use Only. The encyclopedia is contained on a searchable CD-ROM, and is available through the Product Request Form on the CBIAC Web site <http://www.cbiac.apgea.army.mil/>

[Continued on Story 2](#)

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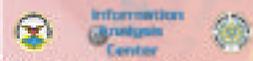


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CBIAC

Story 1

Story 2

XM279 Surface Sampler Probe (continued)

The SAMPLE KIT, AIR: CHEMICAL AGENT ALARM, XM279 is a hand-held system used by the warfighter to monitor surfaces or terrain for liquid CWA and to transfer the suspected CWA in vapor form to a detector. The XM279 heats a surface by way of a heater that is located at the head of the device. The heat vaporizes the liquid, and the vapors condense on the disposable tip of the XM279 when the heater is turned off. The XM279's tip is then placed over the inlet of the M22. The heater is again turned on and the liquid is re-vaporized. The resulting vapors are then taken into the inlet of the M22 detector for analysis.



The XM 279 can be used to identify specific areas where liquid CWA may be present in order to assist warfighters in focusing their CWA decontamination efforts.

The XM279 contains a microprocessor that controls the heater and informs the operator of the current mode by way of three Light Emitting Diodes (LEDs). Two switches control the operation of the XM279, an On/Off switch and a Mode switch. The probe also contains built in test and fault identification systems.

The XM279 Surface Sampler Probe is lightweight and easy to use. It weighs less than 5.5 pounds, uses current standard batteries, and requires no maintenance above unit level.

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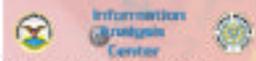


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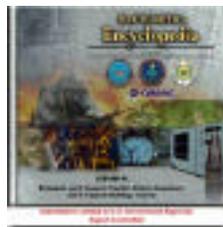
CBIAC

Story 1

Story 2

Biological and Chemical Warfare Online Repository and Technical Holdings (BACWORTH) Encyclopedia (continued)

The BACWORTH Encyclopedia contains detailed data on 66 chemical and biological (CB) agents. Entries for each CB agent include "at-a-glance" top level summaries and detailed technical descriptions with annotations. There are also 9 overview chapters addressing critical CB defense areas. The BACWORTH Encyclopedia contains references to more than 1,400 sources.



Each CB agent entry covers 13 topics—

- Type of Agent
- Name
- Symptoms, History, Description
- Symptoms, Diagnostics, Properties
- Persistence, Exposure
- Effects, Prevention
- Treatment, Alternate Uses, Precursors, Production
- Storage, Detection, Weaponization
- Dispersal, and Protection
- Decontamination.

The BACWORTH Encyclopedia fully leverages DOD Scientific and Technical Information representing the culmination of many years of effort by the CBIAC, and is the new classic information source for the CB defense community.

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