

JOINT BIOLOGICAL POINT DETECTION SYSTEM (JBPDS) ... from Librascope/Battelle/Joint Services

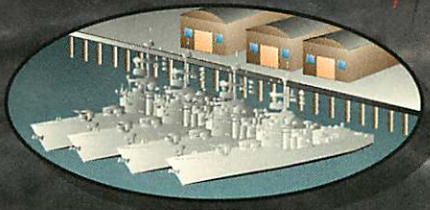
Provides Ability
To Operate And Survive In
Multiple Platform Biological
Warfare Agent Threat
Environments



TACTICAL VEHICLES
AND SHELTERS



LIGHT ARMORED
VEHICLES



SHOREBASE
AND SHIPBOARD



MAN PORTABLE



AIRBASE

JPO - BioDefense



LOCKHEED MARTIN

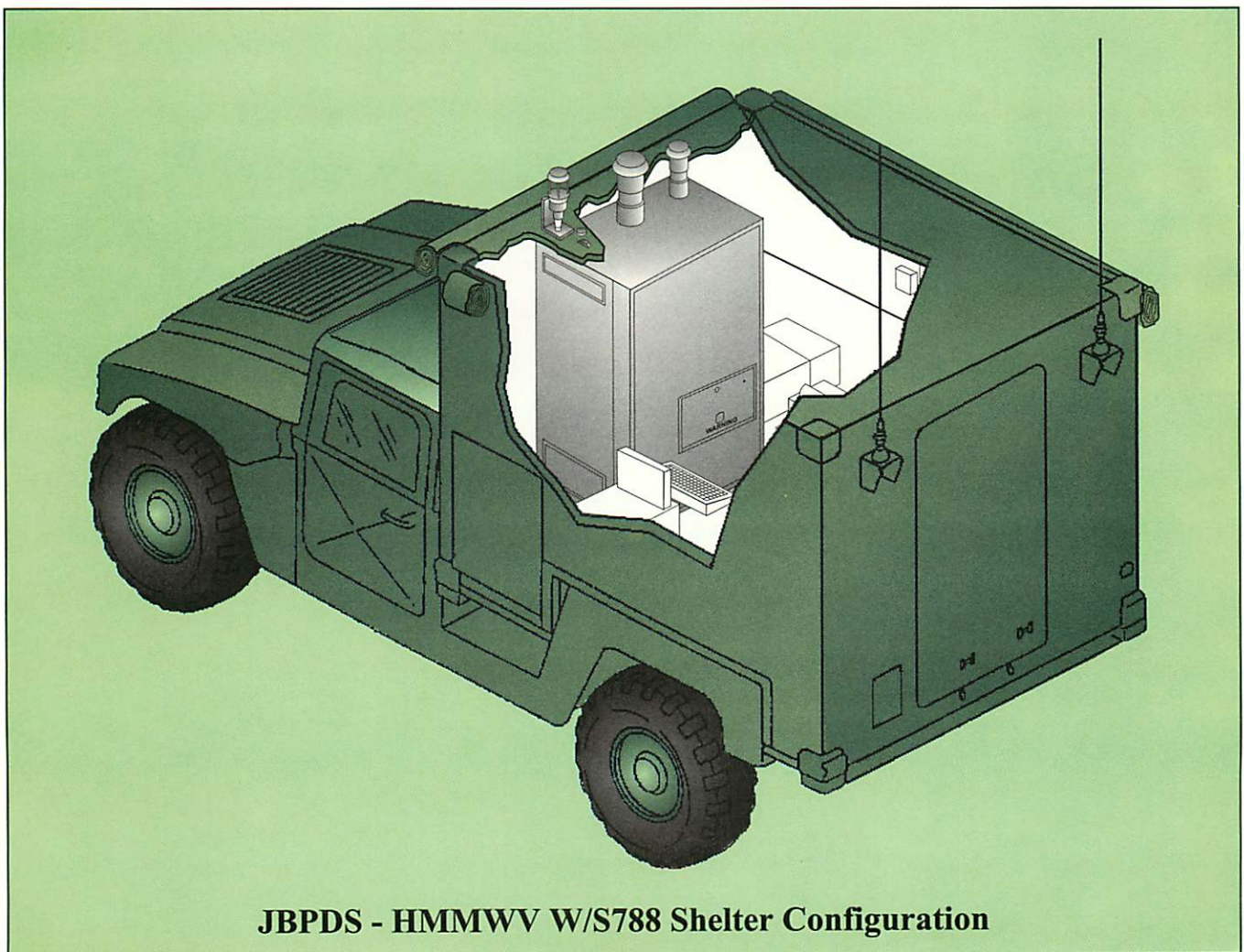


 **Battelle**
... Putting Technology To Work

SYSTEM CONFIGURATION, OPERATION AND FEATURES

The Joint Biological Point Detection System (JBPDS) provides each of the Joint Services the capability to operate and survive in a biological warfare (BW) agent threat environment. In order to satisfy the specific requirements of each of the services, JBPDS is provided in nine different system configurations. Librascope's unique approach to this multifaceted problem is to provide a single Basic Bio-Suite package for all vehicle, shipboard and field-mounted configurations and a derivative Bio-Suite package for manportable installations. Platform unique requirements are accommodated by kits that are tailored to provide the appropriate physical and functional interfaces for a specific installation. This approach greatly simplifies the complex logistics problems normally expected in a Joint Services application.

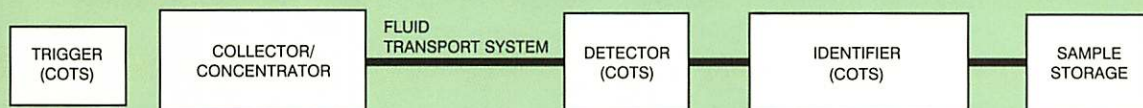
Librascope's JBPDS provides the user with rapid warning of BW hazards and information regarding the nature of the threat. The JBPDS detects point source releases as well as sea and ground level releases of line aerial sources; provides local and remote warning capability; and formats threat information for distribution over standard military communication systems. The JBPDS collects, contains and provides suspect samples for laboratory confirmation. The system is housed in a ruggedly designed enclosure for day or night operation in a battlefield environment. Platform specific installation kits enable the JBPDS to be used in a wide variety of battlefield applications: S788 Shelters, ½ ton trucks, stands or poles for perimeter monitoring systems, deck mounted shipboard installations, NBC Reconnaissance vehicles (HMMWV/S788, Light Armored Vehicles (LAV)), and a man portable configuration.



JBPDS BASELINE DESIGN

ENCLOSURE CABINET

BATTELLE BIO SENSOR COMPONENTS



LIBRASCOPE BASIC COMPUTER UNIT



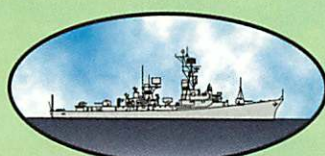
OPERATOR STATION PENTIUM LAPTOP

OPERATOR CONTROL

OPERATOR STATION PENTIUM LAPTOP

REMOTE OPERATOR STATION PENTIUM LAPTOP

JBPDS Designed For Commonality Across Multiple Joint Service Applications/ Configurations



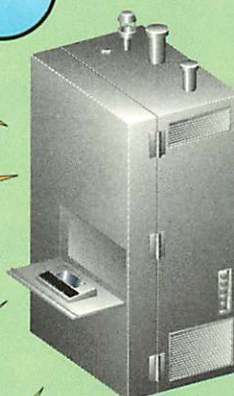
SHIPBOARD



AIRBASE



SHOREBASE/SHIPBOARD



COMMON BIO-SUITE UNIT

COMMON BIO SUITE DESIGN



MAN PORTABLE UNIT

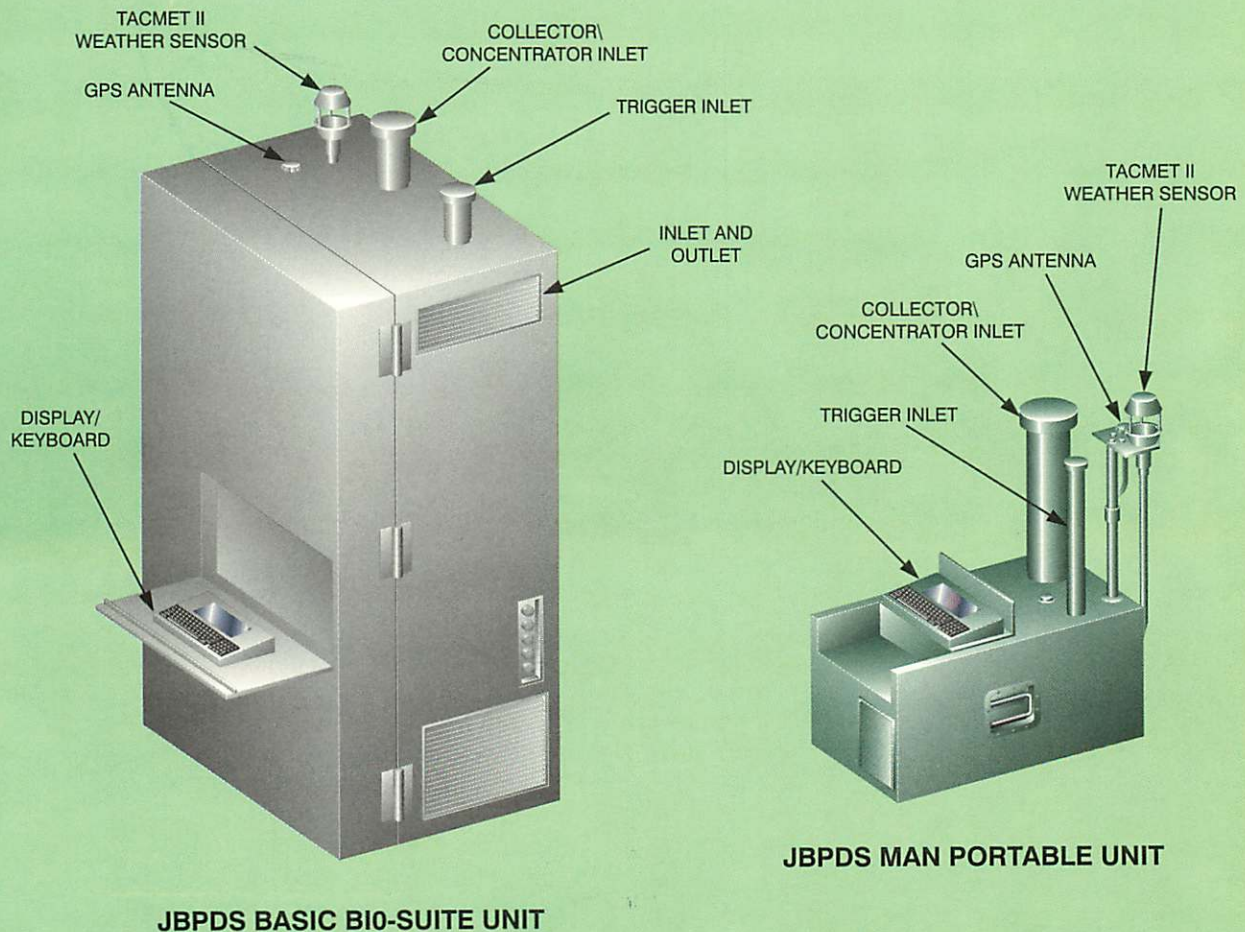
MULTIPLE APPLICATIONS/CONFIGURATIONS

1. U.S. ARMY BIDS (S788 SHELTERS/HMMWV)
2. U.S. NAVY PORT/SHORE (STAND/POLE AND PERIMETER MONITORING)
3. U.S. NAVY 1/2 TON TRUCK
4. U.S. NAVY SHIPBOARD (PORT AND STARBOARD)
5. U.S. AIR FORCE AIR BASE (STAND/POLE AND PERIMETER MONITORING)
6. U.S. AIR FORCE (S788 SHELTERS/HMMWV)
7. U.S. MARINE CORPS LAV (LNBCRS)
8. U.S. MARINE CORPS HMMWV (LNBCRS)
9. U.S. MARINE CORPS MAN PORTABLE (SMALLER, BATTERY)

JBPDS KEY FEATURES

- Automatic Triggering, Collection, Detection and Identification
- Identification within 15 Minutes or Less
- Provides 25, 50ml Samples for Independent Analysis
- Setup, Initialize and Operate within 30 Minutes or Less
- On-The-Move Operation
- Embedded Training
- Built-In Test Capability
- Interactive Electronic Technical Manuals
- False Negative Detection Rate <0.1%
- False Positive Detection Rate <2.0%
- Identifies First 10 Agents in Category A of ITF-6 Report
- Maximum use of COTS and NDI Hardware and Software

JBPDS PHYSICAL CHARACTERISTICS (ARTIST CONCEPT)



LOCKHEED MARTIN



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