

NIDS™

NANO INTELLIGENT DETECTION SYSTEM



Feature Highlights

- **Confirms ID of 10 Bio Agents & Simulants in under 15 minutes**
- **IDs up to 5 Agents per test strip with only 100 uL of sample fluid**
- **Eliminates False Negatives due to Hook Effect**
- **Assays have 2 year shelf life over a wide temperature range**
- **Easy to use Reader even in poor lighting while wearing PPE**

NIDS (Nano Intelligent Detection System) offers a transformational advance in immunoassay technology in virtually every aspect of performance, reliability and value — a true 'best in class' solution now available globally through Smiths Detection.

NIDS is the first truly multiplexed Handheld Assay (HHA) on the market, with each HHA test strip simultaneously testing for up to 5 bio agents from just 100 microliters of sample solution.

NIDS utilizes unique nano-manipulation technology to orient all active antibodies for maximum sensitivity and to virtually eliminate 'Hook Effect' which can cause false negative readings when testing very concentrated bio agent samples. By eliminating Hook Effect, NIDS eliminates the need to run serial dilutions on multiple assays to ensure that HHA results are reliable.

The NIDS handheld reader is a palm-sized ruggedized portable optical scanning device that takes all of the guess work out of interpreting HHA results by different responders in field conditions with poor lighting and limited visibility while wearing PPE. The reader stores up to 3,000 test results, including a preserved scanned image of each test, on a microSD disc. It can be powered by 3 AA alkaline batteries, from main power or from a laptop PC via mini-USB connection. NIDS SAR IV PC software provided with the system allows user to manage data, update firmware and change settings using the NIDS stand-alone reader PC software.

The NIDS bio-threat detection system is backed by first class service, training and support to ensure optimum product performance.

Continued overleaf

NIDS

Smiths Detection is a leading worldwide provider of advanced security solutions and government regulated technology products to detect and identify chemical, biological, radiological, nuclear and explosive (CBRNE) materials and other dangerous or illegal substances.

NIDS handheld bio-threat commercial assays are currently available to identify: Bacillus anthracis (Ba), Yersinia pestis (Yp), Francisella tularensis (Ft), Vaccinia virus (VAC), Ricin, Botulinum Toxin A

(Bot A), Botulinum Toxin B (Bot B) and Staphylococcal Enterotoxin B (SEB).

Training/simulant assays and test powders are available to demonstrate how to properly use the assays and reader.

Smiths Detection is the sole global distributor of NIDS. NIDS is manufactured by ANP Technologies Inc. a multi-faceted biotechnology company concentrating efforts in the fields of clinical research, diagnostics and defense-related opportunities.

Technical Data

General Specifications

NIDS Stand-Alone Reader	SAR IV
Size	11.7 x 5.7 x 9.4cm (4.6 x 2.3 x 3.7in)
Weight	790g (28oz)
Battery powered	Runs on 3 alkaline AA batteries, which provide 2-3 hours of run time
LCD display	Large color LCD display with variable brightness control (5 levels of intensity)
Micro-SD card	Removable 2GB flash memory card suitable to save up to 3,000 test images
Mains power adapter	5V DC power adapter equipped with type A 'American' two-prong plug Rated for input of 100-240VAC, 50/60Hz, 150mA
Mini-USB port	Allows SAR IV to be powered from PC as well as to manage data, update firmware and change settings using the NIDS stand-alone reader PC software supplied with the system
CE certified	Ruggedized unit designed for field portable use No tools required to access battery compartment Sealed micro-SD card or mini-USB port Removable base for easy cleaning and decontamination Includes 3M lint-free cloth for cleaning optical scanner window
NIDS bio-threat assays	Various multiplexed assays (up to 5 bio agents per ticket) are available
Size	2 x 7 x 0.6cm (0.8 x 2.8 x 0.25in)
Weight	5.2g (0.18oz)
Commercial assays	Commercial assays are available in various multiplex configurations to identify Ba, Ft, Yp, VAC, Ricin, Bot A, Bot B & SEB
Training assays	Single target training assays and test powders are available for Bt & Bg The NIDS bio-threat detection kit includes the SAR IV reader, 20 assay packs, 2 sampling kits and NIDS SAR IV PC software, all provided in a Pelicase
NIDS bio-threat detection kit	NIDS-3000
Size	41 x 32 x 18cm (16.1 x 12.6 x 7.1in)
Weight	4.6kg (10.1lb)
Assay packs	Each assay pack in NIDS-3000 kit contains one each: microbe screen (BA, FT & YP) & toxin screen (Bot A, Bot B, SEB & Ricin)
Sampling kits	Each sampling kit includes two each: 20 mL screw-cap dropper bottle containing 5mL of buffer solution, powder scoops, swabs and sample collection vials



For product information, sales or service, please go to www.smithsdetection.com/locations

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