MicroDx™ 1000

INTRODUCTION

Physicians around the world have come to depend on rapid diagnostic testing for the confirmation of a diagnosis, monitoring of a disease, or determining levels of abused drugs in a patient's system. A timely, accurate diagnosis can mean the difference between relief of symptoms and prolonged suffering, between early intervention and missed therapeutic opportunities, and, in some cases, between life and death. Rapid test products, such as Pregnancy, Strep A, and Influenza test kits, are available on a worldwide basis for many different medical conditions. Rapid test products can provide healthcare professionals with accurate and cost-effective diagnostic information in physician's offices, hospitals, clinical laboratories, and alternate site centers.

FEATURES / OPERATION

The MicroDx™ 1000 Point-of-Care System, jointly developed with Applied Micro Diagnostics, is low cost, easy-to-use, has high sensitivity, and can be seamlessly interfaced into a local physician's office or hospital information management systems. The MicroDx™ 1000 System utilizes nano-fluorescent particles coupled to a low cost but highly sophisticated detection system that provides Qualitative or Semi-quantitative test results depending on the test application and required sensitivity. The MicroDx™ 1000 System offers sensitivity, accuracy, ease-of-use, and electronic data transfer to reduce errors and ensure results are integrated into the patient's electronic medical record.

The MicroDx™ 1000 utilizes a low cost disposable test cartridge or test strip with routinely developed chemistry applications that are easy to implement within the hospital laboratory or at the Point-of-Care. The MicroDx™ 1000 System can provide up to 2 logs increased sensitivity over currently available Lateral Flow Immunoassay testing systems. Testing applications will be provided for Infectious Disease, Cardiac Disease, Endocrinology, Cancer testing and many others.

The MicroDx™ 1000 System has been designed for easy operation. The system weighs approximately 6 pounds and has an extremely small footprint for bench-top operation. The system is totally self-contained and requires no external plumbing or liquid storage. The MicroDx™ 1000 System utilizes a Windows CE operating system with touch screen user interface for patient and data entry. An external keyboard or barcode wand can also be utilized for more rapid data entry. The system has the ability to store up to 1000+ test results and comes with IT Connectivity for Serial RS232, IrDA with optional Ethernet communications.

MicroDx™ 1000

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The MicroDx™ 1000 System is equipped with an embedded Single Board Computer with Windows CE Operating System and applications to control hardware, process sample, calculate results, display results on LCD, store final results and transfer results to host computer upon request. The internal instrument temperature can be controlled ranging from 30 C to 95 C (heating and cooling control for 3 zones including laser, cartridge, sensor board), motor control, laser power control, timer/counters, signal converters, thermal isolation.

POTENTIAL CLINICAL TEST MENU

- Infectious Disease (Influenza A/B, RSV, Group A Strep, Chlamydia, Herpes, Gonorrhea, Trichomonas)
- Cancer (ImmunoFOBT, PSA)
- Cardiac Disease (CK/MB, Myoglobin, hsCRP, BNP, Troponin I)
- Other (H. Pylori, Parasites, Transplantation Drugs, Therapeutic Drug Monitoring, Drugs of Abuse Testing)

OTHER APPLICATIONS

- Immunoassay (bacteria, virus, toxin, and pathogens) and Proteomics Strip Tests
- Nucleic Acid (DNA Assay & Genomics Strip Tests)

STSTEM SPECIFICATIONS

Detection Type:	Fluorescent
Sample Size:	5-100 microliters, Dependent on test
Maximum Tests per Cartridge:	1 (1 test with control)
Time to Result:	5 -15 minutes. Dependent on test
Self Contained:	No plumbing or liquid storage required
User Interface/Data Entry:	Touch screen for data entry
Operating System:	Microsoft Windows CE
Data Management:	Ability to store up to 1000+ test results
IT Connectivity:	Standard with serial RS232, IrDA with optional Ethernet
Operating Temperatures:	5° - 30° Centigrade
Power Requirements:	Universal 90-240 VAC 1A @ 50-60VDC
Safety/Electrical:	FCC Class A
Dimensions:	8" x 12" x 5"
Weight:	< 6 lbs.

OTHER POTENTIAL USERS

- Food & Beverage Industry / Food Safety Testing
- Environmental Testing
- Pharmaceutical Quality Control
- Water Quality

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