



NOKI

TECHNOLOGIES

Noki Technologies, a privately-owned family business operating through two decades in the Nuclear Medicine and Nuclear Energy. Leveraging our expertise, we bring to the fore, Advanced Measurement & Automation Instruments. Our focus on innovation and precision drives us to deliver solutions tailored to the evolving demands of our clients.

WBS

WHOLE BODY SCANNER

Description

The Noki WBS (Whole Body Scan) is an advanced in-vivo monitoring system designed for measuring internal radioactive contamination in radiation workers exposed to high-energy gamma emitters. It addresses the need for rapid and efficient whole-body monitoring in facilities overseen by the Department of Atomic Energy (DAE), particularly in situations involving gamma-emitting radionuclides. This system is capable of detecting most fission and activation products encountered in nuclear and radiological environments. With a monitoring time as short as one minute, the system supports high throughput, enabling the screening of approximately 25-30 workers per hour. The WBS10 is built to achieve sensitivity comparable to conventional whole-body monitoring systems and is sized to accommodate 99% of the body dimensions of Indian occupational workers.

Key Features

Rapid Monitoring

Supports a 1-minute monitoring time, allowing for high throughput of approximately 25-30 individuals per hour.

Optimized Sensitivity

Comparable sensitivity to conventional whole-body monitoring systems for detecting internal contamination.

Accommodates Wide Range of Body Sizes

Designed to fit 99% of Indian occupational workers, ensuring comprehensive monitoring.

Customizable Upgrades

The WBS10 can be upgraded with most industrial BMI scales, integrated by OEM engineers. It also supports proprietary or open software, with API interfaces available upon request.



Multiple Screens & User Privileges

Configurable to use multiple control screens with varied user privileges (up to 3 levels).

Detectors

Equipped with two 4"x4"x16" NaI(Tl) detectors, offering efficient monitoring with separate entry and exit portals for optimal subject throughput.

Shielded Enclosure

The system's shielded enclosure is designed to maximize internal space while meeting strict detection limit requirements. It is also easy to assemble.

Multi-Channel Analyzers (MCAs)

Includes two parallel 1024-channel MCAs that capture spectra from different parts of the subject. The NaI detectors are equipped with integrated electronics subsystems, all easily replaceable and connected via a single USB cable for power and data transfer.

Control Software

Integrates NaI detectors, BMI scales, and additional accessories on demand. Optional facial recognition software automates employee lookups and new registrations without internet access.

Go-no-Go System

Automated dose calculation-based decision system with real-time report uploads.

Third-Party Integration

The system can integrate with external devices like cameras and BMI scales for precise dose estimation, with historical data retrievable via Employee ID, batch runs, or other metrics.

Technical Specification

Throughput

>30 persons per hour

Including Activity detection & Dose Calculation

Reports uploaded on-line & backed up further analysis.

Quality Assurance

Phantoms provided

Quality assurance module included for regular checks.

Simple Pass/Fail criteria defined by user.

Material of Construction

Stainless Steel, Aluminium, Acrylic Glass

Shielding - Virgin Lead, Virgin Copper, Virgin Cadmium, Virgin Plastic

Target Radionuclides

Co-60 <150Bq, Cs-137 <150Bq in 1 min counting.

Software

USB Port Connection

OS – Windows 10/11

Power

240V AC 50/60Hz

Dimensions

W*D*H – 2*2*3 m

Weight > 4000kg

Certifications

Product is CE & GMP certified.



ENGINEER. EMPOWER. INNOVATE.



NOKI

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