

HandFoot-Fibre XL/MED Hand Foot Clothing Monitor



detection

radiation

OVERVIEW

The HandFoot-Fibre™ monitors are used for contamination screening of hands, feet and cloths for alpha, beta and gamma radiation in circumstances which do not require a full body monitor. The monitors are also well-suited for mobile contamination screening.

Two versions are available: HandFoot-Fibre™ XL with optional alpha discrimination for the use in all nuclear environments and HandFoot-Fibre™ MED which features a particularly high sensitivity for nuclides used in medical applications.

The monitors 8 detectors are based on the state-of-the-art Mirion fibre detector technology and are connected to a single advanced photomultiplier box resulting in an outstanding measurement sensitivity & uniformity - for a fast and reliable measurement process even in conditions with high and fluctuating background.

KEY FEATURES

- Outstanding detector sensitivity & homogeneity
- Economic and robust operation & maintenance
- 100 % gas-free
- Very short measurement time
- Easy and intuitive usage
- Touch screen and audio interface
- Detachable probe for monitoring of cloths etc.
- Wheels for easy transport
- Alpha discrimination (optional)

HandFoot-Fibre XL/MED

MIRION BETA FIBRE™ DETECTORS

For the highest performance requirements, the state-of-the-art Mirion BetaFibre™ detector technology utilizes scintillating fibre detectors that feature the industry's lowest area of dead zones. This results in an outstanding sensitivity with an exceptionally high measurement homogeneity. The clever detector design allows quick & easy repairs, for an economic and robust operation with minimal downtime.

MEDICAL APPLICATION

HandFoot-Fibre™ MED has been developed for medical applications. The HybridFibre™ detectors are detecting alpha, beta, and gamma radiation with a particularly high sensitivity for low energy radiation (up to 30 keV). In handling medical isotopes like Co-57, Tc-99m, or I-125 the HandFoot-Fibre™ MED is an expert. A nuclide database is provided, and can be extended with user's own entries. The monitor applies to the EMC requirements of laboratory medicine.

USER BENEFITS

Easy and economic operation and maintenance

- Short measurement time thanks to outstanding detector sensitivity and simultaneous measurement of hands and feet in one step
- P₂-accelerator reduces measurement time by up to 30 %
- Robust real-time multi-tasking operating system QNX
- Automatic background subtraction
- Rigorous standardization for reduced pool of spare parts

Mobile monitoring

- Light weight
- Large wheels for transport on rough ground (optional)

Ability to network

- Connect to CeMoSys™ for centralized monitoring (optional)



TECHNICAL SPECIFICATION

Dimensions	Height: 1660 mm, width: 478 mm, depth: 750 mm
Weight	57 to 63 kg, depending on version
Detectors	8 scintillating BetaFibre™ or HybridFibre™ detectors
Detection limit	30 Bq/hand, 45 Bq/foot (Co-60)
Alpha discrimination	as an option (for HandFoot-Fibre™ XL)

Since norms, specifications, and designs are subject to occasional change, please ask for confirmation of the information given in this publication.

