



**MIRION**  
TECHNOLOGIES

Radiation. **Safety.**

# HandFoot-Fibre™ XL

Hand Foot Clothing Monitor



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

The HandFoot-Fibre™ XL is used in circumstances which do not require a full body monitor. It is well-suited for mobile contamination screening inside controlled areas or in temporary controlled areas.

The monitor is based on state-of-the-art Mirion BetaFibre™ detectors which feature an outstanding measurement sensitivity and uniformity - for a fast and reliable measurement process even in conditions with high, fluctuating background.

## KEY FEATURES

- Outstanding detector sensitivity and homogeneity
- Economic and robust operation & maintenance
- 100 % gas-free
- Very short measurement time
- Easy and intuitive usage
- Detachable probe, e.g. for monitoring of cloths
- Wheels for easy transport

Health Physics

## FUNCTIONALITY

The new HandFoot-Fibre™ XL is a robust, mobile contamination monitor with eight reliable Mirion BetaFibre™ detectors that are connected to a central multi-channel photomultiplier. This allows a simultaneous contamination screening of feet and hands in one step with the highest sensitivity for a fast measurement process.

The intuitive touch-screen and audio interface ensure an easy usage of the HandFoot-Fibre™ XL.

## 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 reliable detector elements are fastened by a simple snapping mechanism that allows quick & easy repairs - for an economic and robust operation with minimal downtime.

## 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
- P<sup>2</sup>-accelerator reduces measurement time by up to 30 %
- Very reliable detectors
- Simple detector design for quick & easy repairs
- Very 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)

The HandFoot-Fibre™ monitor is also available as special edition for medical applications: HandFoot-Fibre™ Med features an energy discrimination and particularly high sensitivity for low energy radiation up to 30 keV.



## TECHNICAL SPECIFICATION

Dimensions	Height: 1660 mm, width: 478 mm, depth: 750 mm
Weight	57 kg
Detectors	8 scintillating BetaFibre™ detectors
Detection limit	30 Bq (hand), 45 Bq (foot) for Co-60

Many optional accessories and upgrades are available  
- contact us at [www.mirion.com](http://www.mirion.com)

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