



# FastTrack-Fibre™

*Gamma Portal Monitor*



## FEATURES

- Up to 14 large volume GammaFibre™ detectors in a compact steel housing
- Very low detection limits compared to conventional monitors
- Drastically reduced false alarm rates, especially in challenging background conditions
- Very short measurement time at all walking speeds
- Touch screen for configuration and data display
- Audio and visual alarm signals
- Uninterruptible power supply
- Available in different versions for indoor, outdoor and mobile installations
- Configuration with 900 mm passage-way width available (suitable for wheelchairs)

## DESCRIPTION

The FastTrack-Fibre monitor sets a new standard for gamma portal monitors by combining state-of-the-art Mirion GammaFibre detectors with the novel FastTrack technology.

The ingenious FastTrack algorithms ensure a robust performance, especially in challenging background conditions, where conventional gamma monitors would frequently produce false alarms.

In combination with the Mirion GammaFibre detectors, this allows for an exceptionally fast detection process with remarkably low detection limits - for an outstanding performance even in the most challenging conditions.

## MIRION GAMMAFIBRE DETECTORS

The state-of-the-art Mirion GammaFibre detectors are developed for highest performance requirements: the scintillating fibre detectors have improved light collection properties and feature the industry’s lowest area of dead zones. This results in an outstanding sensitivity with an exceptionally high measurement homogeneity.

## MIRION FASTTRACK TECHNOLOGY

The ingenious Mirion FastTrack technology is based on an algorithm for real-time detection of radioactive contamination. Basically, three detector modules (see fig. 2a in black/red/green) are arranged consecutively on both sides of the monitor, parallelly to the moving person to be measured. The signals of the detectors are cross-correlated such that the detector is only sensitive to contamination moving with the person. Events outside the detector or background fluctuations (see fig. 2b) are ignored - for a significantly reduced false alarm rate.

## USER BENEFITS

### High throughput

- Fast and reliable detection at all walking speeds
- Insensitive to events involving radioactive sources outside the detector or background fluctuations

### Economic operation and maintenance

- Very robust detectors
- Rigorous standardization for reduced pool of spare parts
- Comprehensive user interface based on Mirion’s innovative Lighthouse software platform and Windows 10 IoT operating system

### Ability to network

- Connect to CeMoSys™ software for centralized monitoring (optional)

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

## TECHNICAL SPECIFICATIONS

### Dimensions

- Height: 2258 mm
- Depth: 600 mm
- Passage way: 620 - 900 mm

### Detectors

- Up to 14 scintillating GammaFibre detectors

### Detection limit

- 550 Bq, Co-60



Fig. 1: Operating the FastTrack-Fibre monitor

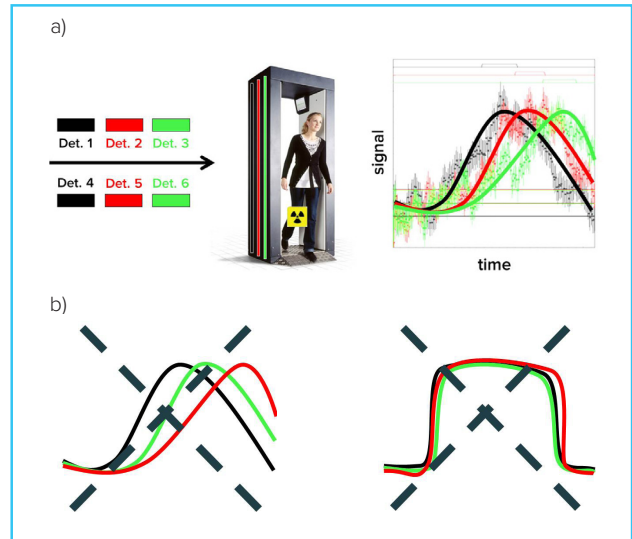


Fig. 2: FastTrack technology concept

## VERSIONS

- **FastTrack-Fibre™ Standard**  
To check personnel for gamma-emitting sources at the site boundaries of nuclear facilities.
- **FastTrack-Fibre™ Outdoor**  
Weatherproof version for a reliable and straightforward radioactivity control in outdoor environments.
- **FastTrack-Fibre™ Mobile**  
Weatherproof version as a mobile monitor construction which can quickly be set up by two people at any location required.

