



MIRION
TECHNOLOGIES

Radiation. **Safety.**

FastTrack-Fibre™

New Generation Gamma Portal Monitor



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education



OVERVIEW

The FastTrack-Fibre™ 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.

KEY 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

Health Physics

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, 3 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

Ability to network

- Connect to CeMoSys™ for centralised monitoring (optional)

Many optional accessories and upgrades are available. Contact us at www.mirion.com

TECHNICAL SPECIFICATION

| | |
|-----------------|--|
| 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™

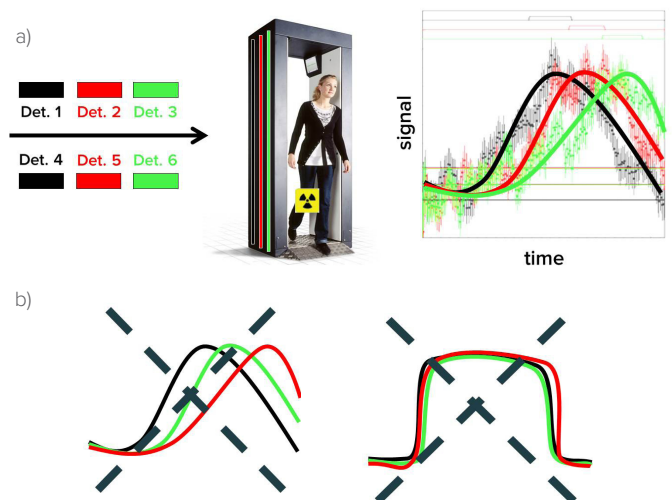


Fig. 2: FastTrack technology concept

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 at major events.
- **FastTrack-Fibre™ Mobile**
Weatherproof version as a mobile monitor construction which can quickly be set up by 2 people at any location required.

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

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