



## FEATURES...

The RADOS FastTrack-Fibre™ is a Gamma Portal monitor implementing the innovative FastTrack algorithms developed at the laboratories of Mirion Technologies (RADOS) GmbH in Hamburg.

This monitor features:

- Up to 14 large volume GammaFibre™ detectors in a compact steel housing
- Alarm annunciation by light and voice
- Industrial PC supported measurement electronics, suitable for networking
- Touchscreen for setup and additional data display
- FastTrack algorithms for the acceleration of measurements without compromising detection performance and leading to a reduction of false alarm rates induced by background events

## RADOS FastTrack-Fibre™

### New generation Gamma Portal Monitor

The RADOS FastTrack-Fibre™ Monitor is not a conventional type Gamma Portal Monitor. It unites the advances of GammaFibre™ and FastTrack technologies in a compact design, thereby setting a new standard in personnel gamma monitoring.

The FastTrack technology delivers a robust performance under circumstances when a conventional gamma monitor would produce a false alarm or worse go into genuine alarm without actually being able to locate the person carrying a source.

It allows accelerating the detection process beyond anything known from conventional gamma monitors without compromising detection limits or false alarm rate.

The combination with the GammaFibre™ technology has allowed us to build this system into a compact monitor which does not look much different to a conventional type monitor from the outside.

These features are complemented by state-of-the-art PC based measurement electronics, running on robust, real time and multi-tasking QNX operating system, proven in industry for highest performance in process control. The monitor features an intuitive graphical user interface and a compact touch screen for comfortable display of additional data, such as a measurement history.



## health physics

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Featuring:

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## TECHNICAL SPECIFICATIONS:

### Overview of Features

- Large Volume GammaFibre™ scintillation detectors - 6 detectors on either side plus optional head and foot detector  
Improved light collection properties for Fibre scintillation detectors.
- Compact, painted mild steel housing, easy to decontaminate
- Alarms indicated by lights with color coding and voice annunciation
- Touchscreen as easy interface to industrial grade computer for setup, maintenance and additional analysis features
- New FastTrack algorithms for accelerated measurements without compromising detection limits or false alarm rate
- UPS allows the monitor to function stable even in case of power fluctuation

### Customer Benefits

- High throughput ensures no hold up at peak times
  - FastTrack algorithms allow reliable detection at all walking speeds, avoiding queues of personnel waiting for measurement at peak times
- Less false alarms require less intervention by control personnel
  - FastTrack algorithms are able to distinguish detection events inside the monitor from outside events. This allows to flag background events or premature detection of sources approaching or waiting outside the monitor. All these events would produce false alarms in conventional type of gamma portal monitors.
- FastTrack algorithms also lead to lower limits of detection than conventional type monitors
- Low cost of operation and maintenance
  - Rigorous standardization of parts decreases need to hold a large variety of spares
  - Maintenance software tools
- Ability to network
  - TCP/IP ability
  - Optional link up with CeMoSys server for centralised monitoring

### References

- RADOS GammaFibre™ technology has been proven over many generations of RADOS body monitors.
- The FastTrack-Fibre™ monitor of the CheckPoint:Gate™ family is the ideal monitor to check personnel for gamma emitting sources at the site boundaries of nuclear facilities
  - with low detection limits in high or changing gamma background
  - with high throughput requirements
- The FastTrack-Fibre™ is also very well suited for use outside the nuclear industry for safeguarding purposes, law enforcement applications or monitoring of vulnerable infrastructures for nuclear or radioactive devices.

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