



MIRION
TECHNOLOGIES

Radiation. **Safety.**

FastTrack-Vehicle™ XL

Truck Monitor



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

NEW

OVERVIEW

The FastTrack-Vehicle™ XL is setting new standards in radiometric screening of trucks and vehicles.

It delivers a robust performance under circumstances a conventional gamma monitor would produce a false alarm, or even worse go into genuine alarm without actually being able to locate the vehicle or object carrying a source.

The monitor combines the FastTrack technology with highly sensitive GammaFibre™ detectors, low energy response, and NORM (naturally occurring radioactive material) recognition, making the FastTrack-Vehicle™ XL a reliable partner for monitoring truckloads of vehicles in very short time.

KEY FEATURES

- Detectors 6 x 8 litres active volume per monitor cabinet
- False alarm prevention
- Excellent detector homogeneity due to fibre technology
- High sensitivity: 40 kBq (Co-60)
- Easy assembling: plug & play
- Web server interface supporting remote services
- Locating the source in the object
- Automatic background subtraction for heavy loaded trucks also in high background

Health Physics

MIRION FASTTRACK TECHNOLOGY

The Mirion FastTrack technology is based on an algorithm for real-time detection of radioactive contamination. 3 detector modules (see fig. 1 in red/green/blue) are consecutively arranged on both sides of the gate, parallel to the moving object to measure. The signals of each detector compare to the others chronology and by pulse rate, which allows the conclusion about the source passing through the monitor inside or out, and the source's location. Plus it leads to better detection limits.

UNIQUE FILTER SETTINGS

The corresponding sensors detect an object moving through the monitor. The result links to various filters reducing the false alarm rate significantly. The "external contamination filter" for example is taking care that only a source passing through the monitor will trigger alarm, while the "non-dynamic filter" recognizes sources outside the monitor and still allows (non-contaminated) objects to pass the monitor through. See also fig 2.

MIRION FIBRE TECHNOLOGY

For the highest performance requirements, the state-of-the-art Mirion fibre detector technology utilizes scintillating fibre detectors that feature the industry's lowest area of dead zones. This results in an exceptionally high uniformity of measurement and an outstanding sensitivity. The reliable detector elements are designed for an economic and robust operation with minimal downtime.

TECHNICAL SPECIFICATION

Dimensions	2453 x 2535 x 262 mm
Weight	2 x 520 kg
Detectors	2 x 6 GammaFibre™ detectors 96 litres
active monitor vol. in total	
Lead shielding	15 mm
MDA	40 kBq, Co-60 (distance of cabinets 4 m, speed up to 20 km/h)
Energy range	30 keV - 3 MeV
Operating software	robust, real-time, multitasking QNX
Compliance	ANSI 42.35, IEC62244, IAEA NSSI, etc.

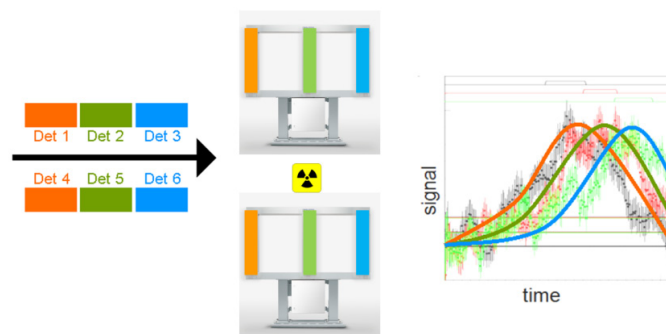


Fig. 1: FastTrack technology concept

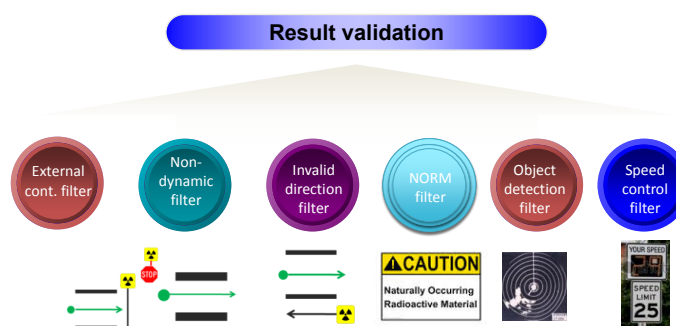


Fig. 2: Unique filter settings for quick measurements with reliable results

OPTIONS

Neutron detection
Cameras
Traffic lights
Barrier interaction
PDF print, network print
Barcode ticket print after event
CeMoSys™ client

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The FastTrack algorithm is winner of the Counter Terror Expo Excellence Award.

Winner