



CONTAMINATION AND CLEARANCE

FastTrack-Vehicle™ XL

Large Vehicle Monitor

FEATURES

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

DESCRIPTION

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.

The monitor combines the FastTrack technology with highly sensitive GammaFibre™ detectors, making the FastTrack-Vehicle™ XL a reliable partner for monitoring many vehicles in very short time.

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.

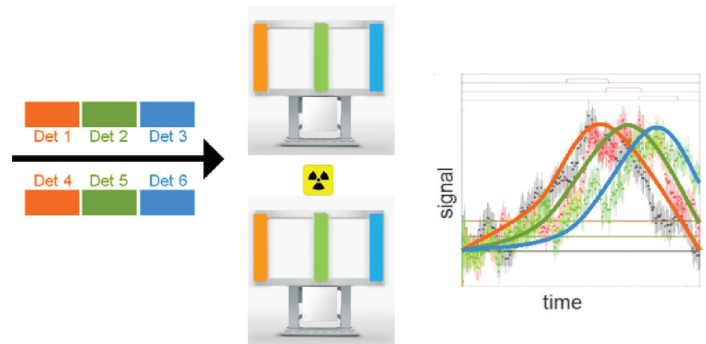


Figure 1: FastTrack concept

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.

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 mm³
- Weight – 2 x 520 kg
- Detectors active monitor vol. in total – 2 x 6 GammaFibre™ detectors 96 litres
- Lead shielding – 15 mm
- Detection limit – 40 kBq (Co-60; distance of cabinets 4 m; speed up to 20 km/h)
- Energy range – 30 keV - 3 MeV
- Compliance – ANSI 42.35, IEC62244, IAEA NSSI, etc.

OPTIONS

- Neutron detection
- Cameras
- Traffic lights
- Barrier interaction
- Barcode ticket print after event
- CeMoSys™ client

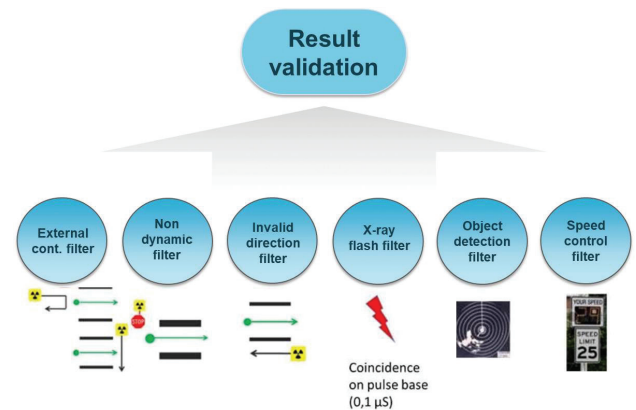


Figure 2: Filter settings for quick measurements with reliable results



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