



OM-SCAN-II/2 Fixed Dual-view (90°) Inspection System

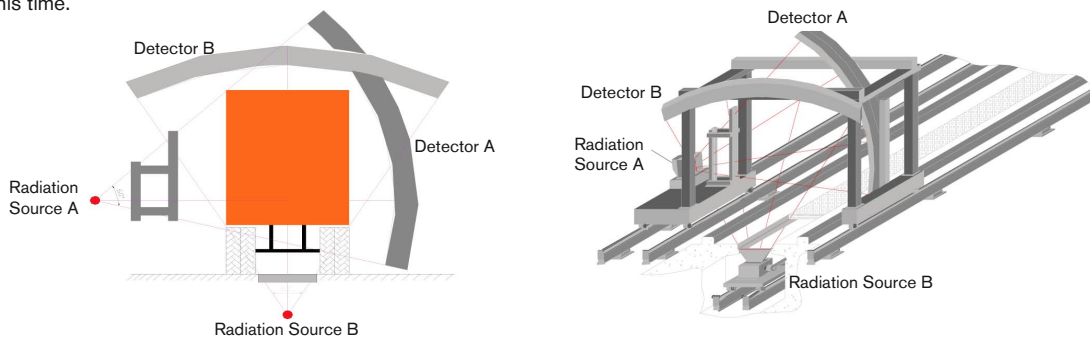
Application:

Built on a dual view concept unlike the SCAN-II/1 the views are orthogonal. Used for the rapid non-intrusive inspection of 10, 20, 40ft containers or cargo trucks and reefers, it can also be used for tankers, small trucks, minibuses and private cars; false walls, hidden compartments and configuration changes will quickly be identified.

- A. It is a gantry design configured in a fixed inspection tunnel for minimum size and optimized radiation safety, 10m wide and 36m long. The mechanical structure which forms the basis of the gantry is mounted on three pairs of rails, two pairs at ground level and one pair in a trench running the length of the scan path.
- B. Overall the design is simple in structure and configuration. It has a single radiation source 'viewed' by a detector array in the horizontal plane. It also has another source and associated detector configured so that the cargo is 'viewed' in the vertical plane; in this case the source runs on a railed trolley mounted in a trench below grade, as shown. The sources and respective detectors operate synchronously over the length of the inspection tunnel.

As with the simpler SCAN-II/1 two views of the cargo are available to the inspector, one vertical and one horizontal.

Note: While Omni Security has researched the application of electronic sources to the SCAN-II/2 it was deemed to be too costly and complex for the benefit to be gained over the less complex gamma-based design, and therefore not available as one of the Omni family of products at this time.



Technical Specifications:

Penetration:	≥ 200 (Guarantee) ~ 220mm (Typical) steel block
Resolution:	≤ 0.8 (Typical) ~ 0.6mm (Guarantee) gauge wire in air
Spatial Resolution:	< 6mm (detector unit size)
Scanning Speed:	5 ~ 20m per minute
Image size:	Detector A 1088×4096, horizontal Detector B 1024×4096, vertical
Maximum Dimensions of Containers Scanned:	4m wide, 4.6m high and 18m long
Throughput:	30 40ft container trucks per hour
Maximum Inspection Dose (MID) :	≤ 30.0μSv per scan Meet all published International standards for radioactive protection
Working Condition:	temperature -5°C ~ +55°C, and relative humidity 95% or less, no condensing
Storage Condition:	temperature -20°C ~ +60°C, and relative humidity 95% or less, no condensing
Footprint of Inspection Channel:	10m wide and 36m long
Power Consumption:	380V AC/220V AC±10% 50/60Hz±3Hz; 30KW

