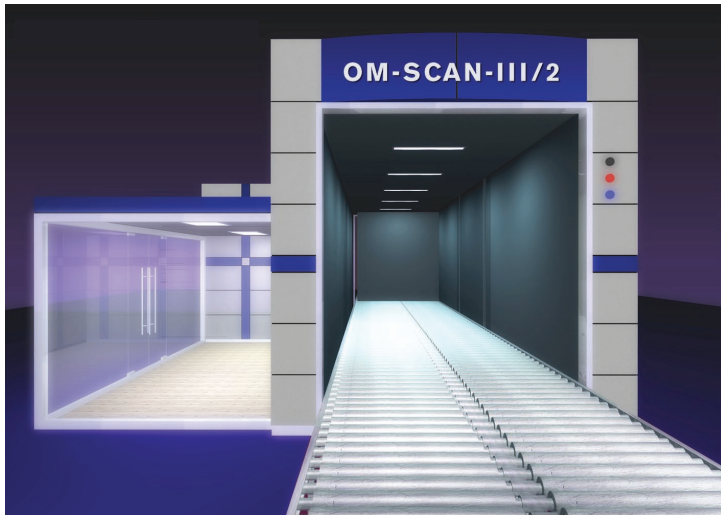




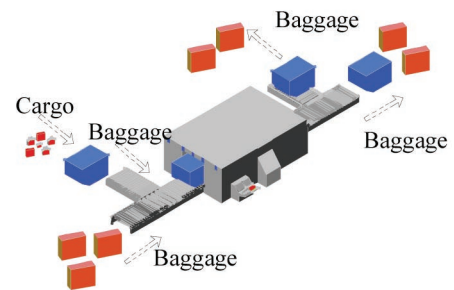
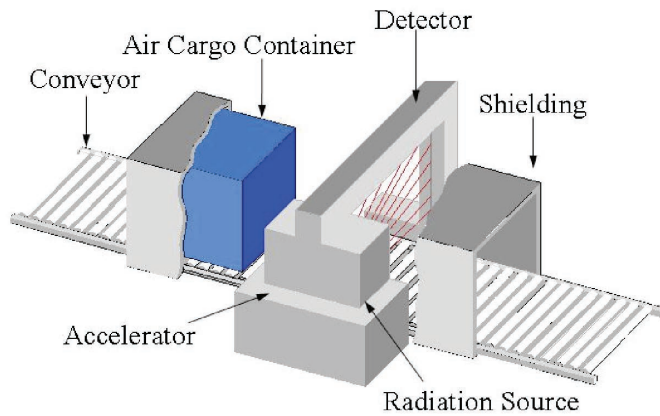
OM-SCAN-III/2 Air Cargo Inspection System



Application:

Introduced as a solution for the rapid online non-intrusive inspection of air cargo and palletized containers, the system can be linked directly to in place air freight roller conveyors.

Incorporating a high energy x-ray accelerator (or isotopic source) the design is simple in structure has high penetration and produces images with high resolution. The inspection tunnel can be extended to allow continuous flow of cargo without the impediment of doors.



Note: The system incorporating the isotopic source can be supplied with a two view option; the offset for the second detector set is approximately 35 degrees.





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Technical Specifications:

Type of X-ray source	Linear accelerator	Cobalt isotope
Normal energy	4MeV	100 Curie
Penetration	≥270mm of steel	≥200mm of steel
Maximum dimensions of scanning tunnel	3.18m (W)×3.18m (H)	
Throughput	40 units of standard ULD per hour	
Scanning method	Air cargo passed through the scanning tunnel via the bidirectional Roller Convey	
Radiation safety area	≤15 m(L)×11m(W)	
Standard operator number	Maximum of 2	
Scanning speed	0.1m/s~0.3m/s	
Maximum dose rate on the system boundary	≤1μGy/h	
Absorbed dose for cargo per scan	≤10μGy/h	
Dose rate for operator	≤1m Sv/yr	
Dose rate for public	≤0.1m Sv/yr	
Detection probability	≥99.9%, non-condensing	
False alarm rate	≤0.1%	
Alarm level for gamma radiation	A dose rate increase of 0.1μGy/h from a background level of 0.2μGy/h at the reference point of the detector for a duration of 1 second	
Operating temperature	-20°C~+50°C(optional -30°C~+50°C)	
Storage temperature	-30°C~+55°C	
Humidity range	0~99%, non-condensing	
Pixel depth	16-bit	
Image acquisition mode	Real-time, synchronized	
Zoom	1/4×, 1/2×, 1×, 2×, 4×, 8×, 16×, 32×, 64×	
Image analysis	Pseudo color, edge enhancement, filter, contrast adjustment, multi image comparison, stripping, alarming, suspicious item mark and comments, storage, shortcut keyboard, user define keyboard, image-format conversion (TIF, JPEG, BMP etc.)	
Options	Support EDI and network interfaces, remote control console, radiation monitoring, and container identification	

