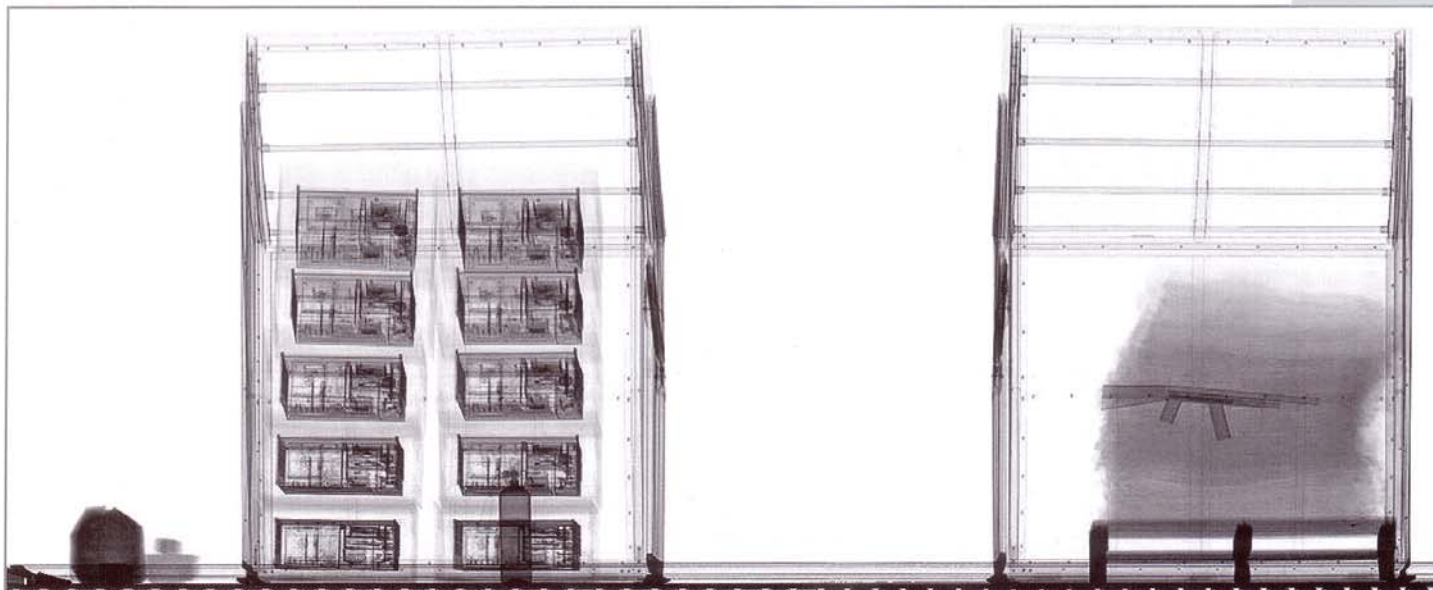


THSCAN[®] AC6000 Air Cargo Inspection System



Technical Data

Type of X-ray source	Electron linear accelerator.
Normal energy	4MeV
Penetration	≥ 300mm of steel
Max. dim. of scanning tunnel	2.54m(W) × 3.10m(H)
Scanned object	Standard ULD
Throughput	40 units of standard ULD per hour
Scanning method	Air cargo passes through the scanning tunnel via the bidirectional Roller Conveyor and Chain-plank Conveyor
Radiation safety area	15.2m(L) × 11m(W)
Min. operator	1
Scanning speed	0.1m/s~ 0.3m/s (typical 0.2m/s)
Max. dose rate on the system boundary	≤ 1μGy/h
Absorbed dose for cargo per scan	≤ 10μSv
Dose rate for operator	≤ 1mSv/yr
Dose rate for public	≤ 0.1mSv/yr
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
Detection probability	≥ 99.9%
False alarm rate	≤ 0.1%
Power consumption	about 40kVA
Runtime	24 hours a day
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 ×
Image analysis	Pseudo color, edge enhancement, filter, contrast adjustment, histogram equalization, linear/logarithm transform, auto alarm for the non-penetrable part, normalization, mirror, suspicious item mark and comments, multi image comparison, procedure record, area calculation, user define macro, image-format conversion (JPEG, BMP etc.)
Options	Explosive detecting equipment; IPS shortcut keyboard Additional Features (Database for typical images; Image query; DBS information management system)

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NUCTECH HAS ACQUIRED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2000)
NUCTECH HAS ACQUIRED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS ACQUIRED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM(OHSAS18001:1999)

