## Comparison of X-Ray Technologies for Whole Body Imaging (AIT)

Modality	kVp (kV)	mA	Dose /	Dose /	Scans per	Scan	Throughput	Information Source
Modality	KVP (KV)	ША			1.5	l .		Illioillation Source
			Scan	Scan (nSv)	Screening	Duration	(people /	
			(µrem)			(s)	hour)	
Backscatter	50 to 90	3 to	3 to 9	30 to 90	2 to 4	3 to 8	varies with	Health Protection
(in general)		5					vendor	Agency (UK)*
AS&E	100	3	9	90	2 to 4	8	80 to 120 at 2	vendor supplied
SmartCheck							scans each	documentation;
(backscatter)								dose from Cerra rp
			l.					
Danisasa	50	E	4.0	40	O. simula	2	0.40	
Rapiscan	50	5	1.8	18	2; single	3	240 with	
Secure 1000					pose (front		overlapping	Secure 1000
(backscatter)					& back		scan & review	Sr. Project Manager
Aviation app**					scanners)		×	

<sup>\*\*</sup> At present (1/09) there are about 250 Secure 1000 systems in the field and they are all single view. 60 % of these are military. The rest are courthouses, prisons, etc. Very few are in aviation settings, but that is about to change. TSA has put out a \$173M IDIQ (Indefinite delivery, indefinite quantity; fixed price) for whole-body imaging machines and Rapiscan has already received an order for 150 units. These are for single pose (2 view, front & back) systems.

purchase 500 to 600 systems.