



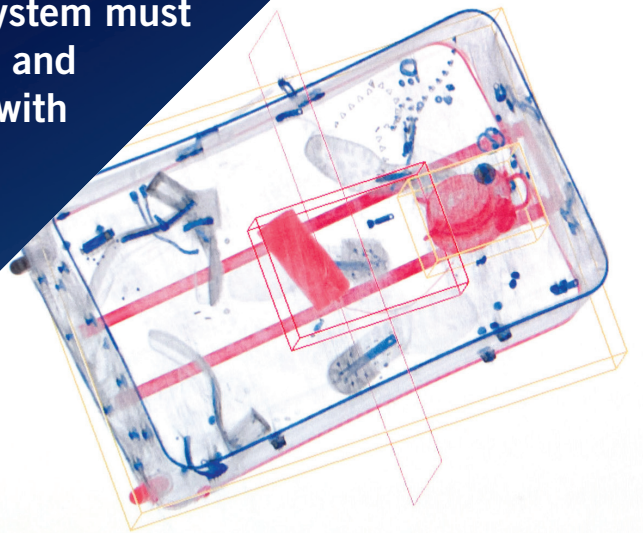
The next generation of EDS is here.



Rapiscan[®]
systems
An OSI Systems Company

The next generation of Explosives Detection System must deliver better performance, greater throughput and higher availability—in a smaller footprint and with lower life-cycle costs.

The next generation is here:
RAPISCAN REAL TIME TOMOGRAPHY (RTT)



Rapiscan RTT A Leap Forward in EDS Design and Performance

Achieving the highest levels of security is the ultimate mission. But doing so in a manner that accommodates future expansion and reduces total cost of ownership—without impacting customer service—requires breakthrough innovation in both technology and design.

That spirit of ‘breakthrough innovation’ has driven the multi-year development of Rapiscan RTT, the next generation in Explosives Detection System (EDS). In designing RTT, Rapiscan started with the real-world challenges faced by government agencies and airport authorities: *performance, throughput, availability, ease of integration and spatial optimization.*

Bringing the Precision of Medical Imaging Technology to High-Volume Baggage Handling Systems

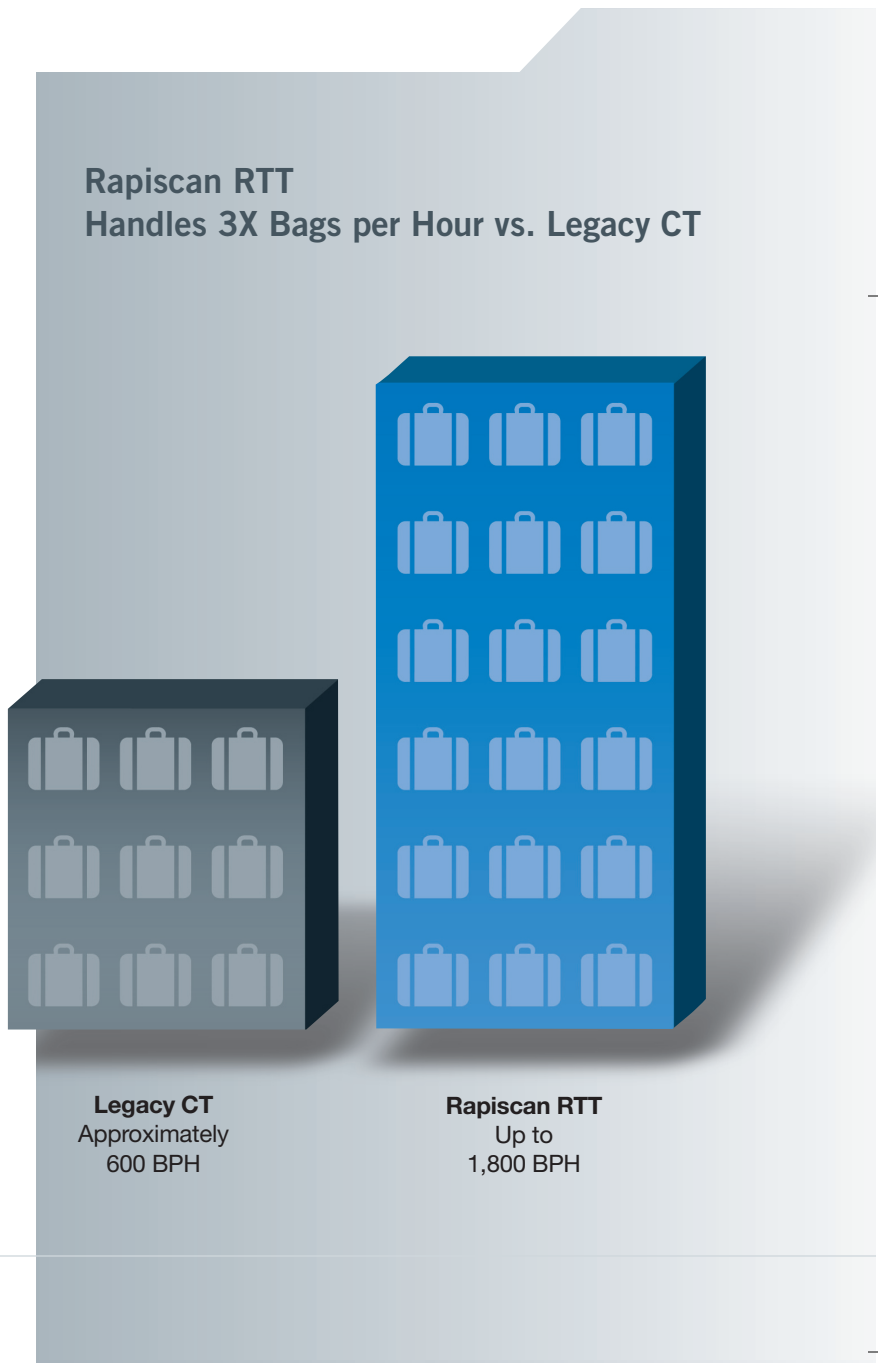
Current aviation baggage screening systems can deliver speed or high resolution—but not both—primarily because they employ a slower and less reliable rotating gantry design.

Real Time Tomography (RTT) is a revolutionary new type of Computed Tomography (CT) scanner that uses an innovative stationary gantry design that captures detailed 3-D images at speeds of between 1200 to 1800 bags per hour—compared to legacy CTs’ rate of 600 bags per hour—at higher resolution and with lower maintenance costs due to its “no moving parts” design.



RTT gives us the opportunity to invest in technology that enables us to meet security regulations, while making the passenger experience simpler.

– Mike Fazackerley,
Customer Service Director
Manchester Airport
Manchester, England



The Industry's First Stationary Gantry Design Sets New Standards for Resolution and Reliability

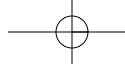
The key to Rapiscan RTT's innovative design is that, unlike other CT baggage screening systems, it does not utilize a moving gantry—one revolving around the bag, typically taking 12 to 15 views. Instead, Rapiscan RTT uses a stationary gantry that incorporates a very large number of micro X-ray emitters that captures up to 500,000 views of a typical bag, therefore generating images with significantly better resolution in all planes at much greater speed.



Advanced Fast Detection Algorithms Produce Best-in-Class Threat Detection

Rapiscan RTT's fast reconstruction and detection algorithms use high resolution CT images to detect the full range of explosive threats in real time. By determining the presence and position of a threat, the industry leading resolution and reconstruction process not only delivers optimal performance for the detection of materials in configurations typically difficult to detect; it also generates fewer false alarms which improves baggage handling efficiency, while lowering operational costs. RTT can also detect viscosity levels in liquids, alerting the operator to potentially concealed explosives.





Fast advanced baggage reconstruction and explosives detection algorithms

HBS class-leading high resolution 3D X-ray images and low false alarm rates

Stationary CT Gantry providing significantly higher reliability and system availability

Full volumetric continuous scanning

Modular chassis design allows installation flexibility



Built-in flexible system configuration, to fit into any security architecture

Capable of multiplexing systems and workstations

Throughput up to 1800 bags per hour in Fast Mode

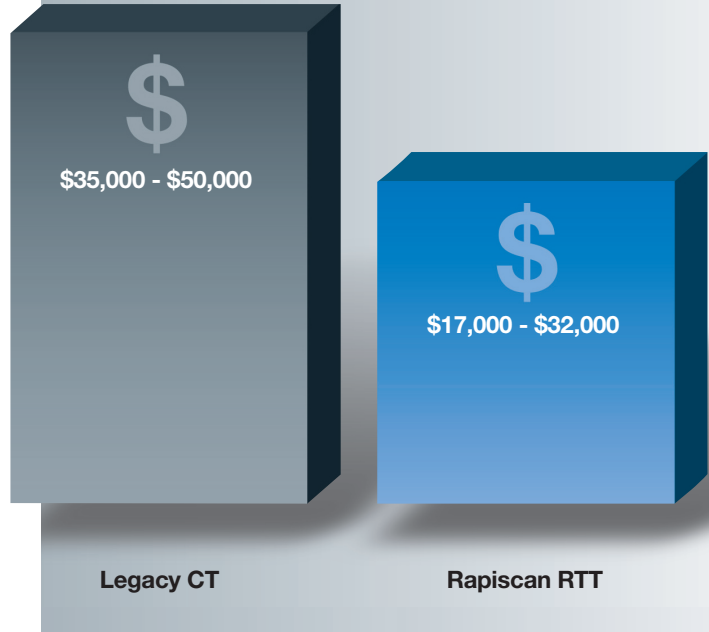
Easily integrated into any baggage handling system



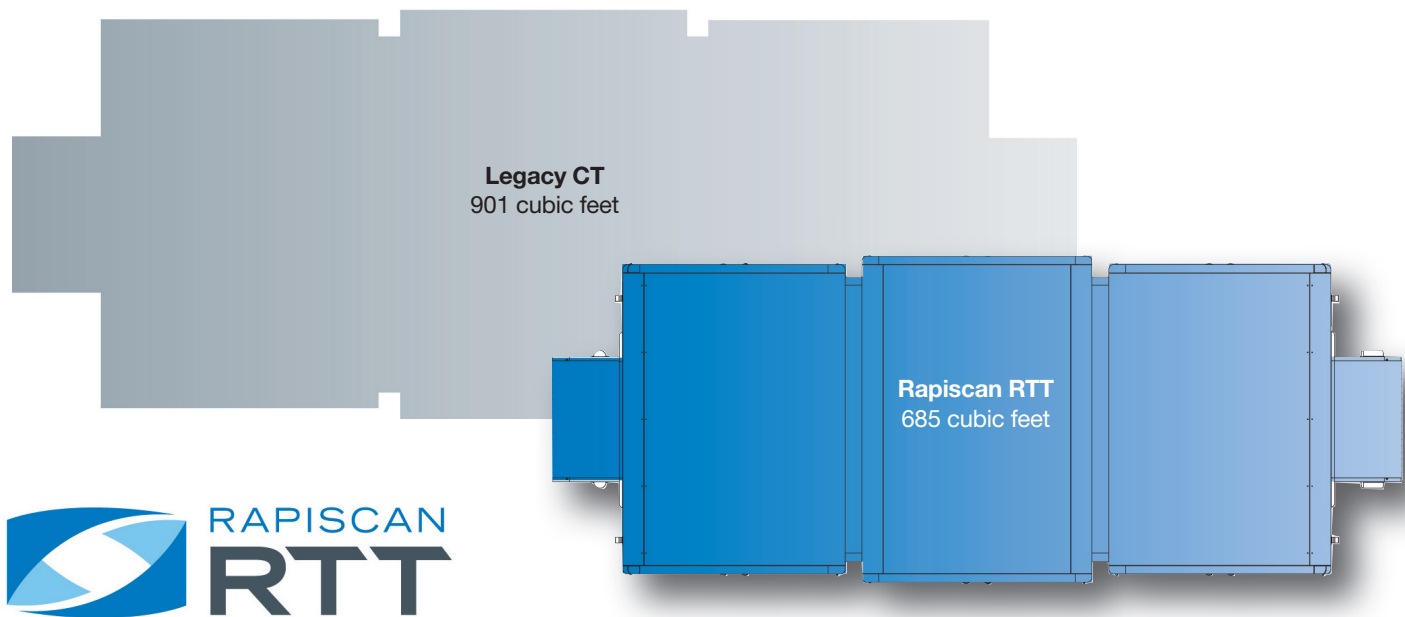
How Does Rapiscan RTT's Revolutionary Design Reduce Overall Cost of Ownership?

- Anticipated lower maintenance costs with the elimination of a complex rotating gantry.
- High throughput results in fewer machines necessary to handle a given volume of bags – and gives airports the ability to meet future demands without costly new capex investments.
- The system can be integrated inline with the existing baggage conveyor network without the need for costly modifications or reconfiguration.
- Advanced Graphical User Interface and ergonomic, energy-efficient design.
- Designed for easy installation, operation and maintenance.
- Lower automated false alarms due to better image quality and state of the art GUI, which translates to reduced alarm resolution costs

Rapiscan RTT Reduces Estimated Annual Maintenance Costs by 35% - 50% vs. Legacy CT



Rapiscan RTT Footprint is 24% Smaller than Legacy CT



Rapiscan Systems The Innovation and Dedication You Expect from a Leader

A technological leap forward like the one represented by Rapiscan RTT can only be achieved by a company that has the highest levels of experience and dedicated industry focus.

Rapiscan Systems is a global leader in high quality security inspection solutions and advanced threat identification techniques, with more than 70,000 systems installed worldwide. Security is our only concern, and we focus on developing solutions that achieve security in a manner that is future-proof and cost-effective for our customers.

Rapiscan has a number of products approved by government agencies including the UK Department for Transport (DfT), the Service Technique de l'Aviation Civile (STAC) and the U.S. Transportation Security Administration (TSA). All Rapiscan products are backed by a worldwide training, maintenance and service organization which is available to customers 24 x 7.

Working with Top Partners

In the research and development of RTT, Rapiscan Systems has partnered with many of the world's leading academic and research institutions as well as leading airport authorities.



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