

SAVE THOUSANDS ON TRACE  
DETECTION & MAXIMIZE YOUR  
SECURITY INVESTMENT

# CHOOSING THE RIGHT EXPLOSIVE TRACE DETECTION (ETD) CAN SAVE THOUSANDS OF DOLLARS IN OPERATING COSTS.

*Deploying the Itemiser® 4DX can reduce power consumption costs by almost \$1,800 per year in the United States, over \$5,000 in Germany and around \$4,500 in Australia for 10 systems\**

The arguments for reducing power consumption by any single Trace Detection system are numerous, spanning from increasing sustainability, extending the overall life cycle of a system to reducing operating costs. Recognizing the implications of power consumed by any single system is an important factor when undergoing the search for a new detection solution, and low power consumption should be a high priority for your checkpoint security suite.

## **BENEFITS OF REDUCING POWER CONSUMPTION**

Determining individual systems power consumption can be incredibly complex and is often seen as an afterthought in the decision-making process when incorporating systems into an integrated security infrastructure. However, understanding how much power is used by a single system should be a primary consideration when investing in any technology.

Reduced power consumption supports green initiatives, reduces overhead costs, lengthens the lifespan of a system and is vital in the total return on investment and long-term viability of the technology.

## **OPERATIONAL COSTS**

Rapiscan® Systems Itemiser® 4DX not only delivers the most advanced explosives and narcotics detection capabilities powered by a non-radioactive source, but ensures that customers realize substantial savings in the overall operational costs. The system does this by being intelligent. It has an automated internal calibration and a regenerative dryer that require less power expenditure, while simultaneously enabling high-quality detection accuracy.

*The power consumed by the Itemiser® 4DX is the lowest in the industry – averaging 70% lower than the most efficient competitive system in the market. That means that for 10 systems, the cost of operations is reduced by almost \$1,800 per year in the United States, over \$5,000 in Germany and around \$4,500 in Australia.\**

## EXTENDED LIFE SPAN

The fact is that the more a piece of equipment is used, even to carry out its primary functions, the faster its lifespan will accelerate.

Industry experts have long recommended reducing power usage to mitigate any premature burn-out, by implementing power-safe functions such as sleep settings and turning off machines that aren't in use. Adopting technology that was built to reduce overall power consumption is the logical evolution in this process and, as a result, will support a longer overall lifespan.

## INCREASED SUSTAINABILITY

Now more than ever, organizations around the world are beginning to accept a great deal of social responsibility and commitment to environmental awareness. Energy reduction in high powered technologies such as trace detection or screening solutions can have a significant impact on emissions and greenhouse gas produced by an organization. The **Itemiser® 4DX** uses 70% less power than most efficient competitive systems, meaning a dramatic reduction in its overall carbon footprint.

## CONCLUSION

Rapiscan Systems' **Itemiser® 4DX** has distinguished itself as the most effective machine of its kind for reducing expended power. The resulting benefits, including a longer system lifespan and reduced cost of operation, have led organizations around the world to select the 4DX as an integral component of their security infrastructure. The European Civil Aviation Conference (ECAC) approved solution has been proven as a significant asset in closing security loopholes and identifying residue from explosives and narcotics on skin, clothing, bags, cargo, vehicles and other surfaces. Economic implications of our trace detection combined with high performance are the reason that more than 27,500 systems are currently being used in 175 countries, territories and borders around the world.

\*Assumptions - Power consumption: Itemiser 4DX at 75W versus 240W (the most efficient competitive system in the market). Power cost: \$0.125/kWh in the USA, \$0.363/kWh in Germany and \$0.308/kWh in Australia. 24 hours /7 days /365 days use based on typical IMS/ITMS recommendation wattage usage established under normal operating conditions.



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