

Weapons Detect

QRSciences AMDS600 For Weapons and Weapon Component Detection

Features

- ✓ Advanced, highly accurate weapons and weapon component detection for mail packages
- ✓ Uses QRSciences' proprietary AMDS technology
- ✓ Exceptionally low false alarm rate
- ✓ Weapons and weapon components have characteristics distinct from other metallic items normally found in mail packages and so can be discriminated with high confidence

The new Advanced Metal Detection System AMDS600 from QRSciences, scans for weapons and weapon components concealed within mail packages. QRSciences' proprietary AMDS technology is designed to allow rapid and automatic screening of conveyerised mail packages and operates as a screener assist upgrade to conventional X-ray imaging systems.



AMDS600 Weapons and Weapon Component Detection System

The AMDS600 application specific metal detection arch contains an inline sensor array which continuously scans the conveyor belt load to search for conducting objects, categorising the composition of materials as they pass through. The scanners utilise low frequency, very low intensity pulsed electromagnetic fields to examine the object's response. The electrical characteristics of permeability and conductivity along with the spatial distribution allow the classification of items in terms of general shape, size and composition by real time advanced digital signal processing. These systems can be easily configured to detect a wide range of conducting objects and materials.

The AMDS600 has a variety of potential uses such as national and international postal gateways, where the shipping of firearms, firearm components and other weapons are banned or strictly regulated. AMDS technology differentiates these objects from a wide range of harmless clutter, typically achieving very low false positive alarm rates. For commercial/government enterprises delivering high volumes of material, the highlighting of small percentages of mail packages assists the operator and adds value to the enterprise by increasing detection rates while not burdening operators or the system with unwarranted overheads. The AMDS automatic alert can be used by the operator to sort suspicious packages for secondary examination, or act as an operator assist when using other forms of technology to greatly enhance the detection of illicit objects.

Accurate Weapons Detection

QRSciences' AMDS technology consists of proprietary sensor arrays and advanced signal processing algorithms configured to probe the physical characteristics of metallic objects. Weapons and weapon components have characteristics that are distinct from other metallic items normally found in mail packages and can be discriminated with high confidence and exceptionally low false alarm rates.

Easy Integration & Low Cost

The AMDS600 operates with the belt speed and width of conventional X-ray linescan systems and, as the scan result is instantly displayed, has no impact on the processing rate of mail packages. Using the AMDS600 screeners can focus on the interception of other contraband with the assurance of an automatic alert for weapons. The AMDS600 is low cost to purchase and low cost to maintain with no moving or high voltage parts.

Additional Features

Manual belt override switch
Emergency stop switches
Automatic Mode – AMDS600 conveyor follows the actions of the X-ray belt
Remote LED indicator panel option

Specifications

Aperture	900 x 900 mm
Max Conveyor Speed	340mm/sec
Detection Indication	LED Indicators – blue for 'found', green for 'clear'
Options	Remote indicator panel displaying the detection results
Height	1880 mm
Width	1370 mm
Length	600 mm
Weight	500 kgs
Operating Temperature Range	10 – 40 deg C
Power Consumption	Less than 500 Watts
Power Supply	Single Phase - 240V

QRSciences is the world leader in quadrupole resonance, magnetic sensing and advanced metal detection technologies. Applications for these technologies include explosive and narcotic detection, chemical manufacturing quality control and assurance, mineral and material assay, lab instrumentation and environmental science.



Q Detection Systems

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