

Portable X-ray Security Inspection Equipment

Brand: ITM

Model: SR5S Wide Dynamic



SR 5S is a portable, battery powered X-ray security inspection equipment designed by ITM Systems using a Spellman® Generator. The wedge imager design allows the operator to get the imager into very confined spaces, the rectangle style imager is suitable for scanning abandoned bags and suspicious packages. The target is placed between the x-ray generator and imager. Ideal for use by Border Control and Customs, Mass Transit Locations, Stadiums and Events, Explosive Ordnance Disposal (EOD), High Security Buildings and Prison Facilities

The Equipment Comprises

A portable x-ray imager\A portable x-ray generator\A laptop imaging station

Features:

- High penetration with sub-millimetre resolution
- Designed for rapid deployment and easy use
- Powerful image enhancement and analysis tools
- User-friendly software
- Two waterproof and rugged carrying cases
- 300mm×250mm imaging area.
- Penetrating up to 12mm steel at 150kV

Software Features

- (1) The detector can capture x-ray perspective image from suspicious package.
- (2) There are many image processing functions, such as "Mark", "Pseudocolour", "Binarysation", "Histogram"; "Relief", "Rotation", "Zoom", "Mirror", "Negative"; "Edge Extraction", "Threshold", "Contrast", "Grayscale", "Wide Dynamic", "Sharpen"; "Freeze", "Image Measure", "Manual Jigsaw"
- (3) There are buttons "New", "Open", "Close", "Save", "Save As", "Print", "Exit" etc.
- (4) Image storage ability: More than 10,000 pictures which can be downloaded remotely through internet or via USB Port.

Technical Specification

XR200 Generator	
Operating Mode	Pulse, it can launch 4000 pulses after change.
Best Detecting Distance	0.5m
Weight	5.5 Kg (with battery)
X-ray Leakage Dose Rate	Less than 200 μ Gy/h and 20 μ Gy/h at the distance of 5cm and 1m away from the surface of x-ray tube.
Penetration Capacity	12mm steel
Pulse	3mR per pulse
Voltage	150kV
X-ray Tube Lifetime	10 million pulse life (The tube can be replaced)
Resolution Ratio	It can penetrate 16mm Aluminium to see 38AWG wire.
X-Ray Imager	
Imager Size	375×315×150mm
Imaging Window	300×250mm
Weight	5.5Kg (with battery)
X-ray Detection system	hypersensitive CCD X-ray detector (1600*1200 pixel)
Dynamic Range:	14bit (16383 Gray)
Battery	12V lithium batteries
Power Supply	8 Hours
Working Temperature	-15°C~+60°C or 5°F ~ 140°F
Relative Humidity	10%~90% (no moisture condensation)
Imaging Station	
Type	Lenovo or HP Laptop
Processor	Dual Core
Memory	RAM:2G, Hard Disk:500G
Operating system	Microsoft Windows 7
Power	AC and DC Batteries
Warranty	5 years

Analyse solid, liquid or powder articles as bellow

Explosives	TNT ,RDX, PETN, Octagon, Sulfur and Ammonium Nitrate (AN), DNT, Picric Acid, Lead Styphnate, Tri Nitro Naphthalene, SEMTEX, Nitro Glycerin, Nitro Cellulose, Tetryl, Smokeless Powder, Black Powder , C4.
Narcotics	Cocaine hydrochloride, Palavering hydrochloride, Methamphetamine (meth), Methamphetamine and Ketamine hydrochloride (K).
Liquid Threats	Acetic acid, Acetic anhydride, Ethanol, Chloroform, Methanol, Toluene, Acetone, Pyridine, Benzene, Ethyl ether, Cyclohexane, 1-2 Dichloroethane, Xylene, N,N-dimethylformamide, Isoamyl alcohol, Isopropyl alcohol, Nitrobenzene, Ammonium Nitrate, Potassium Nitrate, Sodium Nitrate, Barium Nitrate, Cyclohexanone, Isoamyl acetate, Tetrahydrofuran.
Others	infinitely extensible database which can be updated on regular basis