



SCANDEM

Dual Energy Module

**Organic Material Discrimination Module
for Pulsed X-ray Sources**

Snap On Module

Dual Energy Filtering

Organic Material Detection

SCANDEM

Dual Energy Module

Compact snap on module for dual energy x-ray imaging.

The ScanDEM is a snap on module that attaches to any pulsed X-ray source allowing you to take multiple X-ray images of an object and to differentiate between organic and inorganic materials without any loss of x-ray penetration or image resolution.

Easy upgrade to your existing Scanna x-ray system

The ScanDEM Module requires no external power supply and simply snaps onto your X-ray source without tools or screws. It is designed primarily for use with Golden X-ray Sources and ScanSilc portable x-ray systems.

Dual Energy X-ray Images

The DE module provides additional information about the chemical composition of inspected items making assessment and identification faster and easier for the x-ray operator.

Airport Standard Colorisation

Based on airport x-ray colour coding and compatible with the ECAC Standard Test Piece (STP) the module distinguishes between materials according to their atomic weight (organic/inorganic) and uses different colours to classify inspected objects. The classification is carried out by a real time calculation based on the x-ray absorption factors of materials.

Organic Material Discrimination

The colours are classified in 3 main groups:

Orange

Indicates organic substances composed of light chemical elements . Explosives and narcotics belong to this group.

Green

Indicates the presence of medium heavy elements or overlapping objects of organic and inorganic substances (mixed materials)

Blue

Indicates dense inorganic or metallic substances such as zinc, copper and steel etc.

Key Features

- Compatible with Golden XR200 and XRS-3
- Small compact snap on design
- Organic and Inorganic material differentiation
- No loss of penetration or image resolution

Applications

Bomb Disposal
Suspect Package Investigation
Check Unattended Bags
Search for Narcotics and hidden Contraband
CBRNE work

Due to our policy of continuous design and development, specifications are subject to change without notice.



Module snaps straight onto the end of your x-ray generator

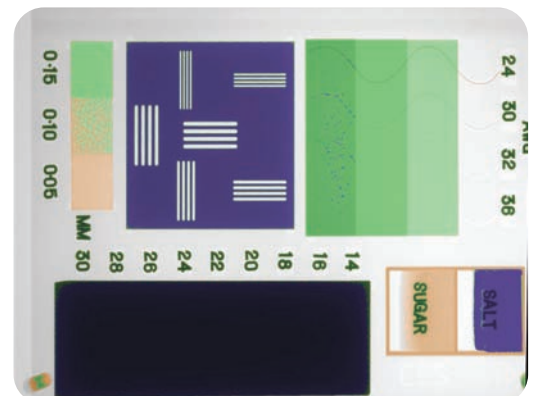


Module Front View



Module Rear View

Dual Energy Image of STP using a pulsed x-ray source showing organic material discrimination



SCANNA MSC Ltd

223 Regent Street, London W1B 2EB, UK

Tel: +44 (0) 207 355 3555

Fax: +44 (0) 207 355 3556

www.scanna-msc.com