

Multi-angle Dual-energy X-ray Scanner

Multi-angle dual-energy X-ray scanner MRS7 is designed to recognize in automatic mode of prohibited to carrying goods in hand luggage trough the identification of their images and determining of the atomic number and density.



MRS7-01



MRS7-02

Advantages:

- ✓ detection of illicit to carrying substances by average atomic number;
- ✓ detection of prohibited to carrying goods by their images in 7 projections;
- ✓ ability to customize scanner to detect any substance from the class, prohibited to transport;
- ✓ detection of disguised items;
- ✓ ability to operate in automatic mode;
- ✓ flexible algorithms of operation modes automatic setting, allows it to find optimal detection mode for each specific case;
- ✓ metadata fixation: passenger's photo – luggage radiograph;
- ✓ low (comparing to analogues) device cost;
- ✓ displaying of radiographs in 7 projections with highlighting of “dangerous” areas for operator analysis;
- ✓ self-diagnosis system and automatic setting;
- ✓ images from 7 angles with highlighting of areas, containing “dangerous” items or substances;
- ✓ ability of integration into inspection equipment of any complexity.

Characteristics	Value
dimensions, mm (LxWxH)	3600x943x1630
tunnel size, mm (WxH)	550x650
weight, up to, kg	1 200
substance atomic number identification	yes
probability of target substance detecting in luggage, %	
at weight 50 g	80
at weight 200 g	90
probability for false detection, up to, %	10
maximum luggage length, m	2
conveyor speed, cm/s	25
luggage owner video fixation	yes
image analysis time, up to, s	4
resolution, AWG	40
spatial resolution, at least, mm	1,6
number of photodiodes in projection, pcs	640
detector (dual-energy photodiode lines), pcs	70 (64 photodiodes in each)
digital zoom, %	500
power consumption, up to, kW	1,5
anode voltage, kW,	140
current, mA	0,5