



Certified Dual-View X-Ray Baggage Scanners Specification Sheet

The VMS dual-view range, certified by the Ministry of Public Security, with named imaging components.

Models in this sheet: VMS-5030D Dual-View X-Ray Machine, VMS-6550D Dual-View X-Ray Security Inspection Equipment, VMS-10080D Dual-View X-Ray Security Inspection Machine, Viboo5030A Single Energy X-Ray Baggage Scanner

Figures in this document are those published by the factory for each model. Where a value is shown as TBC it is not published, and we confirm it with the factory before order rather than estimate it. Specifications are subject to change without notice.

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1. VMS-5030D Dual-View X-Ray Machine

The VMS-5030D is certified by the Ministry of Public Security and penetrates more than 40 mm of steel from both bottom and side views, at 0.0787 mm line resolution on a single solid copper wire (40 AWG). Component sourcing is named rather than implied: a British Sens-Tech acquisition system, Japanese Hamamatsu detectors and dual digital X-ray sources, displayed on a 21.5-inch 1920 x 1080 LCD.

Key benefits

- More than 40 mm steel penetration on both bottom and side views
- 0.0787 mm line resolution, equivalent to a 40 AWG copper wire
- Sens-Tech acquisition system and Hamamatsu detectors with dual digital sources
- Three-dimensional outline from two independent sources at any item angle
- Certified by the Ministry of Public Security

Specification

Imaging	Dual view, bottom and side
Penetration, Bottom View	greater than 40 mm steel plate
Line Resolution	0.0787 mm single solid copper wire (40 AWG), bottom and side view
Penetration Resolution, Bottom View	0.202 mm
Spatial Resolution	1.0 mm vertical
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Maximum Load	150 kg
Tunnel Size	500 x 300 mm
Power	500 W
Lead Shielding	2 to 6 mm lead sheet
Display	21.5-inch 1920 x 1080 LCD
Certification	Certified by the Ministry of Public Security

2. VMS-6550D Dual-View X-Ray Security Inspection Equipment

The VMS-6550D takes the certified dual-view platform to a 650 x 500 mm tunnel and 43 mm of steel penetration, with 0.127 mm penetration resolution on the bottom view. Two independent sources produce a three-dimensional outline at any item angle, and noise stays under 58 dB with a 170 kg load capacity.

Key benefits

- 43 mm steel penetration with 0.0787 mm line resolution at 40 AWG
- 650 x 500 mm tunnel with 170 kg load capacity
- Three-dimensional outline from two independent sources at any angle
- Material recognition by effective atomic number with colour coding
- Under 58 dB operating noise

Specification

Imaging	Dual view, bottom and side
Penetration	43 mm steel plate, bottom view up to 46 mm
Line Resolution	0.0787 mm single solid copper wire (40 AWG)
Penetration Resolution, Bottom View	0.127 mm

Spatial Resolution	1.0 mm vertical
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Maximum Load	170 kg
Tunnel Size	650 x 500 mm
Noise	under 58 dB
Certification	Certified by the Ministry of Public Security

3. VMS-10080D Dual-View X-Ray Security Inspection Machine

The VMS-10080D is the large-tunnel member of the certified dual-view family: 1000 x 800 mm, 200 kg load and 46 mm of steel penetration on the top view, with two perpendicular views that cut the need for secondary inspections. Line resolution stays at 0.0787 mm for a 40 AWG copper wire.

Key benefits

- 1000 x 800 mm tunnel with 200 kg load capacity
- 46 mm steel penetration on the top view
- Two perpendicular views reduce secondary inspections
- 0.0787 mm line resolution at 40 AWG
- Certified by the Ministry of Public Security

Specification

Imaging	Dual view, top and side
Tunnel Size	1000 x 800 mm
Maximum Load	200 kg
Penetration, Top View	46 mm thick steel plate
Line Resolution	0.0787 mm single solid copper wire (40 AWG), top and side view
Penetration Resolution, Top View	0.127 mm
Spatial Resolution	horizontal 1.0 mm, vertical 1.0 mm
Tube Voltage	160 kV
Tube Current	1.2 mA
Conveyor Speed	0.22 m/s
Overall Length	3205 mm
Certification	Certified by the Ministry of Public Security

4. Viboo5030A Single Energy X-Ray Baggage Scanner

The Viboo5030A is a 500 x 300 mm tunnel scanner for briefcases, carry-on baggage and small parcels, built around operator support rather than raw penetration. It flags explosives and narcotics by atomic number signature, alarms on impenetrable high-density areas, and carries Threat Image Projection so operator performance can be trained and assessed on the live machine.

Key benefits

- Explosives and narcotics alarmed and highlighted by atomic number signature
- High-density area alarm flags regions the X-ray cannot penetrate
- Threat Image Projection inserts test images for operator training and assessment

- Uninterruptible power supply and secure access key
- 100,000 images archived automatically, exportable to USB as JPG or BMP

Specification

Tunnel Size	500 x 300 mm
Conveyor Speed	0.2 m/s
Conveyor Height	663 mm
Conveyor Maximum Load	50 kg
Dose per Inspection	3.0 mGy
X-Ray Leakage	1.0 mGy/h
Penetration	6 mm steel
Wire Resolution	0.0787 mm copper wire (AWG40)
Penetration Resolution	0.202 mm copper wire (AWG32) under a three-step aluminium wedge, 9.5 / 15.9 / 22.2 mm
Spatial Resolution	1.0 mm horizontal and vertical
Anode Voltage	80 kV
Anode Power	0.4 to 1.2 mA adjustable
Generator Angle	80 degrees upward, from bottom to top
Cooling and Duty Cycle	Oil cooling, 100%
Energy Consumption	maximum 1 kW
Noise	56.3 dB
Film Safety	ASA/ISO1600 compliant
Unit Weight	284 kg, 400 kg gross on a wooden pallet
Unit Size	1660 x 746 x 1165 mm
Image Archive	up to 100,000 images, USB export as JPG or BMP