



X-RAY BAGGAGE SCANNER - 100100 B



The 100100 Dual Energy X-ray scanner is purpose-built for the rigorous demands of inspecting large baggage and cargo in logistics hubs, stadiums, and transport depots, where reliable threat detection and high throughput are essential. Utilizing advanced dual-energy X-ray technology, this system differentiates materials based on their composition, providing high-resolution, color-enhanced imaging that enables operators to accurately identify potential threats such as explosives, weapons, or contraband. Its robust and durable construction supports continuous heavy-duty operation in challenging environments, ensuring long-term reliability and minimal downtime. The scanner features superior steel penetration capabilities and a generously sized tunnel to accommodate bulky items, making it ideal for bulk and back-end scanning applications. Despite its large capacity, the system maintains fast processing speeds, balancing throughput with uncompromised security. The 100100 also incorporates safety features to minimize radiation exposure while meeting global compliance standards. By combining size, performance, and safety in a single versatile platform, this scanner offers an efficient and dependable solution for organizations that require thorough screening of large items without sacrificing operational efficiency or security standards.

Product Highlights

- ✓ Multicolour image reference to atomic number
- ✓ Self-diagnostic function with printable report
- ✓ TIP-enabled for operator vigilance with embedded threat simulations
- ✓ Emits ultra-low radiation, safe for continuous operator use
- ✓ Penetration capability 35 mm steel for dense and layered baggage screening
- ✓ More than 2,00,000 images archived
- ✓ Advanced image processing with negative view, grey scan, and edge enhancement
- ✓ User-friendly interface & logs
- ✓ Safe for scanning photographic films (ISO3200) and food items without degradation
- ✓ Certified by AERB for radiation safety and regulatory compliance

Artificial Intelligence (AI)

It has greatly improved the efficiency and accuracy of baggage scanning systems, particularly in high-security environments like airports and railway stations. By using deep learning algorithms modern scanners can automatically detect and classify threats like weapons, explosives, and other prohibited items. These systems offer real-time image analysis and generate instant alerts through both audio and visual alarms when a potential threat is identified. They are designed to maintain high detection accuracy while minimizing false alarms, reducing operator fatigue and error. Additionally, users can configure the system to highlight specific objects of interest by selecting them from a predefined list.



TECHNICAL SPECIFICATIONS

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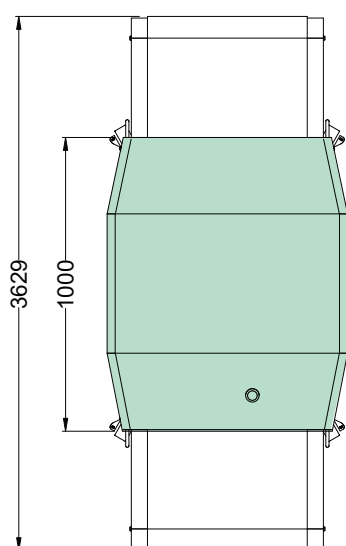
MODEL	MBS-100100B
UNIT SIZE (L x W x H)	3630 x 1295 x 1915 mm (±5%)
CONVEYOR SPEED	0.22 m/s
CONVEYOR LOAD	160 Kg Max.
ANODE VOLTAGE	≥ 140 kVA
RAY DIRECTION	Downwards
COOLING	Sealed oil cooling
X RAY LEAKAGE	<1µsv/h at any point 50mm away outside of the external surface
STEEL PENETRATION	35 mm guaranteed.
WIRE RESOLUTION	AWG38 , SWG42 guaranteed.
SPATIAL RESOLUTION	Horizontal : dia 1.0mm Vertical : dia 1.0mm
POWER CONSUMPTION	< 1 KW
NOISE	<60 dB
FILM SAFETY	Guaranteed ASA / ISO3200 Film
DUTY CYCLE	100%
X-RAY SENSOR	L-Shaped Photodiode Array, 12 bit deep.
IMAGES PROCESS	24bit real time processing ,4colors analysis, Images displayed marked date and ID No., Count the number of bags
IMAGE DISPLAY	High resolution of 1920*1080 pixel; Image Grey Level: 65536
IMAGE ENHANCEMENT	1-32 times enlargement continuity, Color/BW, negative, high/low penetration enhancement, brightening, darkening, grey level scan, super enhancement, elimination of organics/inorganics, local enhancement, pseudo color processing, edge enhancement, etc.
EXPLOSIVES & NARCOTICS DETECTION	Suspicious organics highlight (atomic number Zeff=7,8,9)
SUSPECIOUS ALARM	Alarm and box line the suspicious objects including hard to penetrate material, explosives and drugs
THREAT IMAGE PROJECTION (TIP)	Inserting fictional, but realistic images of threat items into baggage during screening operation to maintain vigilance, as well as training and assessment of image identification capability

TECHNICAL SPECIFICATIONS

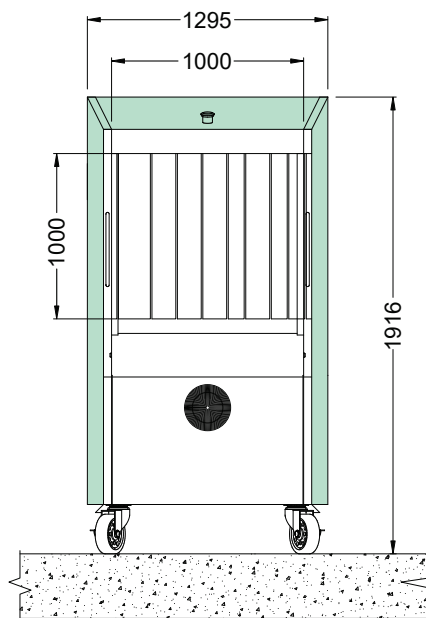
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IMAGE ARCHIVE	Up to 1,00,000 images stored automatically, enable transferring to USB disk and converting to JPG format
MISCELLANEOUS FUNCTIONS	Time/date display, counters, user management, system-on/X-ray-on timers, power on self test, built-in diagnostic facilities, system log, system standby and stimulant training, etc.
OPERATION TEMPERATURE/HUMIDITY	0°C - 50°C / 0%-98% (Non-condensing)
STORAGE TEMPERATURE/HUMIDITY	-20°C to 70°C / 0%-98% (Non-condensing)
OPERATING POWER	110-240 VAC, 50-60Hz
OPTIONAL	Console Cabinet / Table, UPS, Extension roller.

GA LAYOUT



TOP VIEW



DIMENSIONAL TOLERANCE +/- 5%

FRONT VIEW