



X-RAY BAGGAGE SCANNER- 6040 B



The 6040B Dual Energy X-ray scanner is a sophisticated security solution designed to enhance threat detection by accurately differentiating between organic, inorganic, and metallic materials using true color imaging technology. This capability allows operators to quickly and confidently identify potential hazards, making it particularly well-suited for high-traffic environments such as railway stations, large institutions, and other busy public venues where speed and accuracy are paramount. The scanner incorporates advanced features including Threat Image Projection (TIP), which simulates concealed threats to train operators and improve detection rates, along with cutting-edge edge detection and image enhancement tools that provide exceptional clarity and detail. Its high penetration capability ensures that even dense or shielded objects are thoroughly inspected without compromising image quality. Designed with operator comfort in mind, the ergonomic interface reduces fatigue during prolonged use, contributing to more consistent and reliable screening outcomes. Fully compliant with global radiation and safety standards, the 6040B offers a robust, user-friendly, and efficient screening solution that balances professional-grade performance with operational ease, making it a preferred choice for demanding security checkpoints that require both precision and throughput.

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 6040AB
UNIT SIZE (L x W x H)	1850 x 865 x 1285 mm (±5%)
CONVEYOR SPEED	0.22 m/s
CONVEYOR LOAD	160 Kg Max.
ANODE VOLTAGE	140 to 160 kV
RAY DIRECTION	Upward
COOLING	Sealed oil cooling
X RAY LEAKAGE	<1µsy/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	< 800 Watts
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

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IMAGE ARCHIVE	Up to 10,000 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

