

# X-RAY SECURITY SYSTEM FOR ADVANCED THREAT DETECTION

**ADANI SYSTEMS**  
Innovate the Future



## BV M.A.X

### X-RAY MATTRESS INSPECTION SYSTEMS

PATENTED US 2017/0123099 A1



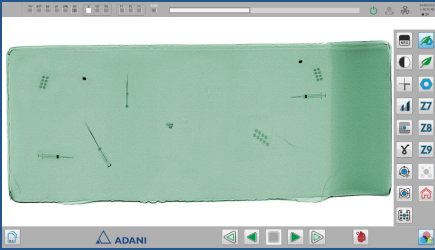
## KEY FEATURES

- Compact design. Fits standard doorways.
- Perfect image quality.
- Lightweight.
- Portable (On wheels).
- Contactless screening.
- Automated identification of suspicious objects (drugs, weapons, money, and electronics).
- Quick start-up and shutdown.
- User friendly interface.
- Offers standard baggage scanner functions to inspect mail and personal property.

The BV M.A.X. is a compact mobile conveyor type X-ray screening system for fast, effective and contact-free inspection of mattresses and inmates' personal property.

Due to the compact design and special wheels the BV M.A.X. can be easily relocated and deployed wherever security inspection is needed.

This movable and highly versatile tool is the first system designed specifically to address the problem of contraband hidden in mattresses. It can be brought directly to cell blocks or dormitories to greatly assist the inspection process. It is created to eliminate the need to fold mattresses to fit into conventional X-ray inspection systems.



## LIST OF SOFTWARE FEATURES AVAILABLE TO AN OPERATOR

- Automatic detection of the most of common contraband
- Capable to process mattress of most suppliers
- Simplified and automated inspection process
- Contraband detection assistance software
- Simple and user-friendly touch screen interface
- Image review and advanced software features
- Controlling the conveyor belt drive, the X-ray generator.

## THREAT DETECTION



**NARCOTICS AND LIQUIDS**



**WEAPONS AND BLADES**



**ELECTRONICS AND MICRO CELLPHONES**



**MONEY AND PAPERS**

## RADIATION SAFETY

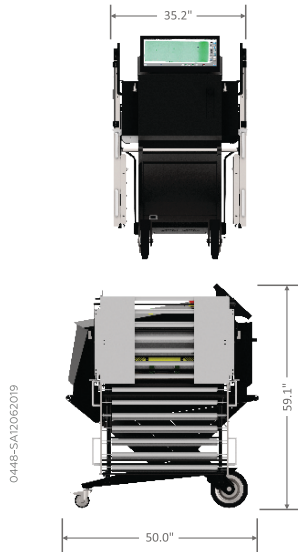
The design of the system provides radiation leakage attenuation limited to 5.0  $\mu$ Sv/hr (0.5 mR/hr) or lower at any accessible point at the distance of 0.1 m from the external surface of the system. The dose rate intensity at the workstations of the personnel does not exceed 5.0  $\mu$ Sv/hr.



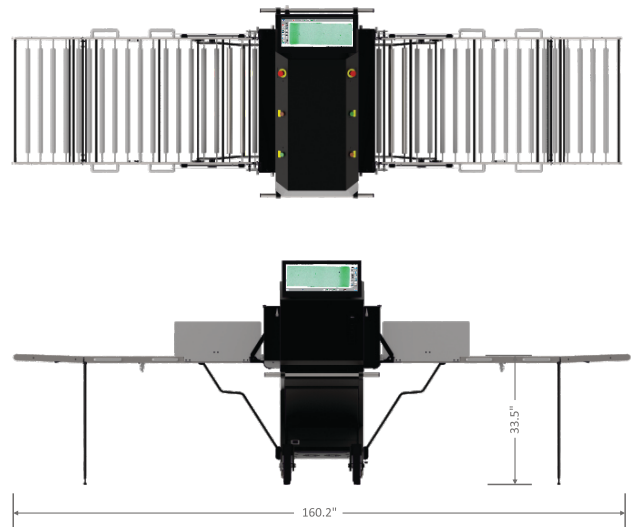
## SPECIFICATIONS

Tunnel size (WxH) Conveyor speed	34.3" x 9.5" 43.3 ft./min
Load on the conveyer	Max 55.1 lbs
Steel penetration	16 mm [ 0.63" ] typical
Wire detectability	40 AWG
Dual-energy detector	Yes
Number of colors within the X-ray image	3 or 7 color palette
Dimensions (LxWxH) and Weight	34.3" x 50.0" x 55.3" 794 lbs
Power Supply	120 V $\pm$ 10%, 50/60 Hz
Power Consumption	Max 0,5 kVA
Operating temperature Humidity	from 32 to 104 °F up to 98% non condensing

Transporting view



Operational view (expanded)



## AUTOMATED INSPECTION PROCESS

- Contraband detection assistance software
- User-friendly touch screen interface
- On-board and networked data storage
- Remote diagnostics feature
- Image review and other advanced software features
- Optional special stair-stepping wheels
- Network integration
- Ready for barcode reader, camera, RFID, ID reader

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