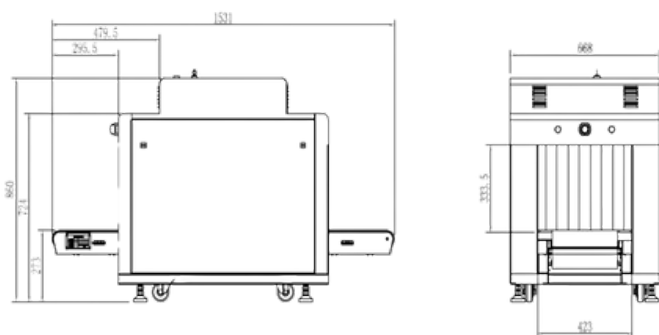**2M TECHNOLOGY**
DESIGNED FOR LIFE

Features

- Compact design with 420mm x 330mm tunnel size
- High-resolution imaging with 1920×1080 pixels and 4096 grey levels
- AI-enhanced image analysis with 4-color processing
- Explosives & narcotics detection with suspicious item highlighting
- Real-time threat image projection (TIP) for operator training
- Advanced image tools: zoom, contrast, pseudo color, organic/inorganic filtering
- Stores up to 10,000 images with USB export in JPG format
- Built-in system diagnostics, user management, and standby mode

Dimensions (mm)

Specifications

GENERAL SPECIFICATIONS	
Operating Power	220VAC(±10%) 50±3Hz (Optional: 100VAC,110VAC,120VAC,200VAC)
Power Consumption	Max. 400W
Dimensions (L x W x H)	1531 x 668 x 860 mm 60.28" x 26.30" x 33.86"
Unit Weight	445 lbs. / 202 kg
Gross Weight	584 lbs. / 265 kg
Working Temperature / Humidity	5°C ～ 45°C / 0% ～ 90% (non-condensing)
Storage Temperature	-20°C to 60°C / 10% - 90% (non-condensing)
Detection Accuracy	Stainless steel SUS304 ball: φ0.4mm, ceramic ball: φ0.8mm, glass: φ1.0mm
Tunnel Size (H x L)	420 x 330 mm / 16.54" x 12.99"
Conveyor Height	273 mm / 10.75 inches
Conveyor Belt Speed	0.22 m/s
Conveyor Max Capacity	50 kg / 110 lbs
Penetration Resolution	Dia 0.202mm copper wire (AWG32) guaranteed
Spatial resolution:	Horizontal dia: 1.3mm, Vertical dia: 1.0mm
Noise	<60 dB
X ray dose per each inspection	≤2 μGy
X ray leakage	<1μGy/h at any point 5 centimeters outside the external surface
Steel penetration	8 mm guaranteed
Wire Resolution	Dia 0.0787mm copper wire (AWG40) guaranteed
X-RAY GENERATOR (SINGLE)	
Anode Voltage	80 KV
Ray direction	Downward
Cooling / Duty Cycle	Sealed oil cooling /100%
Monitor	One 17-inch LCD monitor, 1280*1024, no console desk
RAM	1GB
Keyboard	Special designed
System	Embedded Linux operating system, multi core ARM, stable and reliable
Compliance	* ISO19001 ; ISO14001 ; ISO45001 ; * CE RoHS * FDA FCC

Specifications

IMAGING SYSTEM	
X-ray Sensor	L-Shaped Photodiode Array
Images process	12-bit Image Depth, processed in 24-bit real-time
Image Resolution	1920 × 1080 pixels
Image Enhancement	• 1–32x continuous zoom • Color/Black & White viewing • High/Low penetration enhancement • Brightening & darkening • Gray level scanning • Super enhancement • Organic/inorganic elimination • Local area enhancement • Pseudo color rendering • Edge enhancemen
Image Grey Levels	4096
Display Markings	**Auto-stamped with date, ID number, and bag count**

THREAT DETECTION & ANALYSIS	
Explosives & Narcotics Detection	Highlights suspicious organics (Zeff = 7, 8, 9)
Suspicious Item Alarm	Visual box line alert on hard-to-penetrate materials, explosives, and drugs
Threat Image Projection (TIP)	Inserts realistic fictional threat items for operator training and awareness

SYSTEM	
System Features	• Time/date display & bag counters • Multi-user access & user management • Power-on/X-ray-on timers • Self-test and built-in diagnostics • Activity logs and system standby • Stimulant training mode for operator readiness
Optional Upgrades	Dual-direction scanning Intelligent roller system