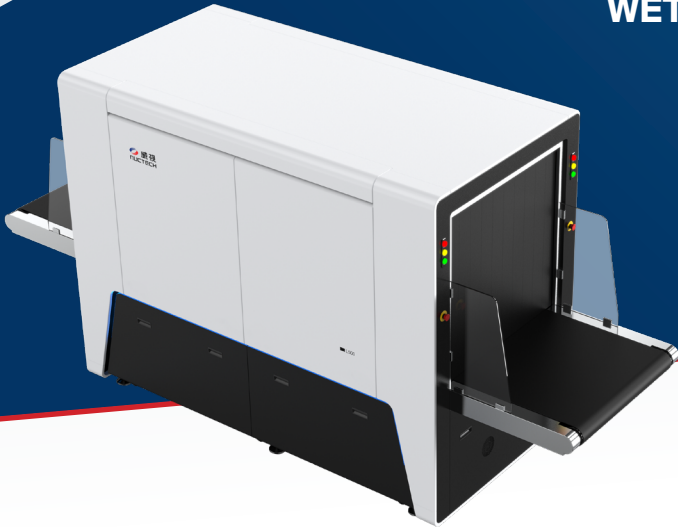


WETAN™ L500

WETAN L500 X-RAY INSPECTION SYSTEM



WETAN
L Series

INTRODUCTION

The new X-ray inspection system combines backscatter and transmission imaging technology, and can generate backscatter and transmission images in one scan. It can significantly solve the problem of finding materials with low atomic number in the shallow parts of the baggage, which detects both organic and inorganic materials.

Applications

The scanner is suitable for the security inspection of carry-on luggage and small parcels, and can be widely deployed in customs, airports, stations, ports, government agencies, warehouses, stadiums, exhibition centers and other places.



FEATURES

- Both the X-ray dual-energy transmission and backscattered images can be generated in one scan. The dual-energy transmission images are colored according to the effective atomic number, which can help to identify the materials. Backscatter imaging technology highlights the organic materials, and can effectively detect contraband such as drugs, explosives, and plastic weapons.
- The dual-energy transmission and backscatter images are clear, strong penetration and high line resolution.
- With advanced material identification function, it can distinguish organic, inorganic materials and mixtures (or light metals) according to the atomic number of the objects and color the image, which helps the operator to analyze the image.
- Able to convert the format of the images to JPG, BMP, PNG and other common image formats.
- Modular design provides diagnosis functions for main components such as X-ray generator, detector array, backscatter imaging unit, etc., which makes diagnosis and maintenance more accurate and faster.
- Extremely low leakage radiation dose rate complies with all health and safety standards.
- Explosives and drugs detection assistance function automatically detects and alarm according to the characteristics of the material composition.
- Provide threats image plug-in function (TIP function). Convenient for operators to train and assess image recognition ability.

TECHNICAL SPECIFICATIONS

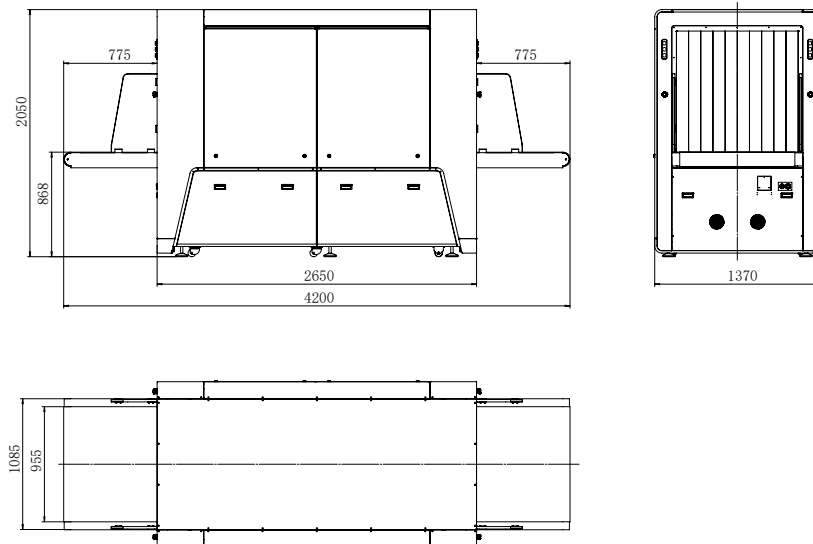
General Parameters		Installation Data	
Tunnel dimensions	1010 mm (W) × 1006 mm (H)	Dimensions	4200 mm (L) × 1370 mm (W) × 2050 mm (H)
Conveyer speed	0.30 m/s (adj ustable)	Weight	1600 kg
Conveyer height	868 mm	Storage temperature/ humidity	-40° C ~ +60° C / 5% ~ 95% (non-condensing)
Max. load	200 kg	Operation temperature/ humidity	0° C ~ +40° C / 5% ~ 95% (non-condensing)
Wire resolution	0.1 mm (38AWG)	Power supply	AC 100V~ 240 V (-15% ~ +10%),50 Hz/60Hz ±3Hz
Penetration (steel)	34 mm (transmission)	Power	1.3 kVA

Image Processing	
Image enhancement	colorization/grayscale, inverse, high/low energy penetration, super enhancement, variable absorption, suspicious organic material enhancement and so on.
Material identification	characteristic of effective atomic number
Overall/partial zoom	gradual/continuous zoom, up to 32 times
Image retrieval	for all scanned images
Image storage	100,000 pcs (storage customizable)

Health and Safety		System Functions	
X-ray leakage dose rate	less than 1 μSv/h (5 cm from the enclosure), comply with all international health and safety standards	Standard functions	date/time display, counts, user management, system power-on/ X-ray generator beam time, power-on self-check, diagnosis tools, system log, system standby, training and so on.
Film safety	comply with ASA/ISO1600(33DIN) film safety standards	Optional functions	explosive/ drug assistance detection, alarm for high density area, threats image plug-in

Dimensions

(mm)



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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO 9001)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO 14001)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM (OHSAS 18001)