

# WETAN™ R100

## Backscatter Inspection Robot Inspection robot for vehicles and cargos

WETAN™ R100 is a mobile and flexible inspection robot. The targets can be clearly imaged in real time through non-contact X-ray backscatter imaging technology to find concealed contrabands.

WETAN  
R Series



### Smart, flexible, easy transport

The platform can lift up and down to meet different requirements. R100 is mobile, flexible and equipped with obstacle avoidance function. The scanner can rotate 360° freely, and can transport to nearby locations or carried by vehicles to further locations.

## INTRODUCTION

### Targeted Contrabands

Drugs, explosives, firearms and other contrabands concealed in moving or stationary vehicles and cargos.

### Applications

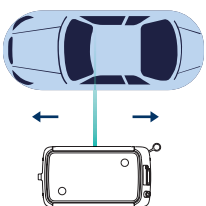
Vehicle inspection at anti-drug, border, road and other checkpoints; empty container inspection at customs and port terminals; random vehicle and item inspection at important places.

### Scan Modes

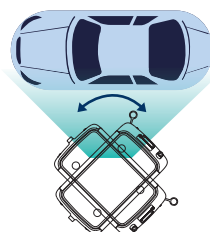
Automatic mode: one-click scan  
Manual mode: fully controlled by operator



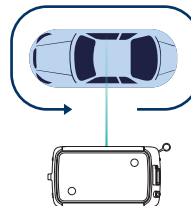
## AUTOMATIC SCAN MODES



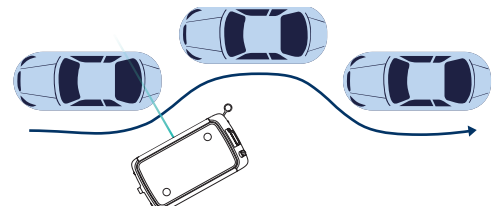
① Shuttle mode



② Swing mode



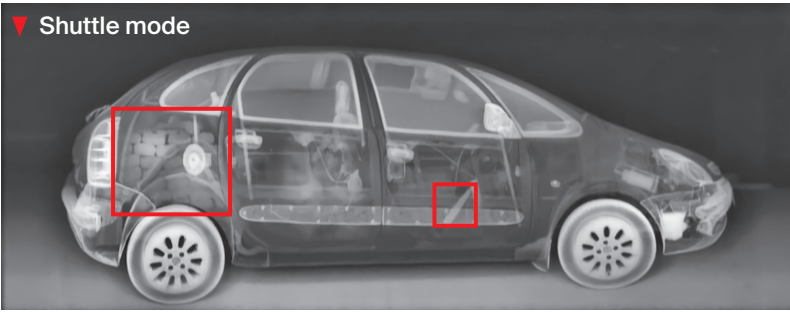
③ Surrounding mode



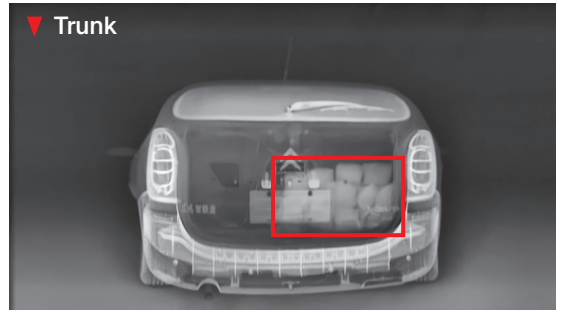
④ Drive-along mode (Semi-automatic)

## SCANNED IMAGES

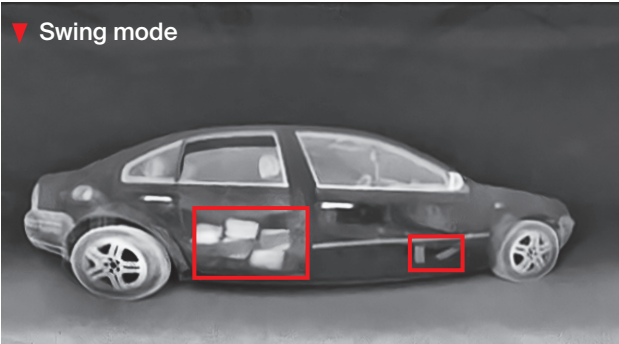
▼ Shuttle mode



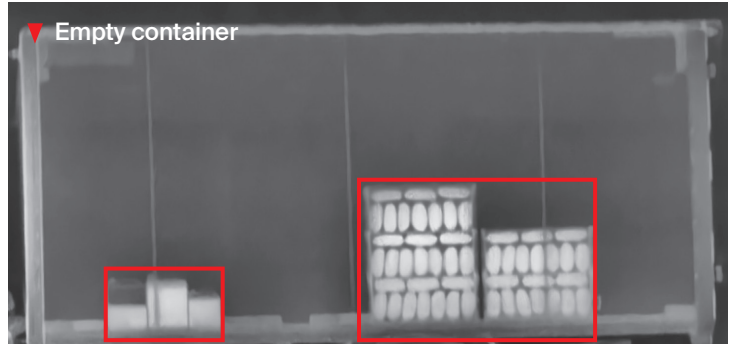
▼ Trunk



▼ Swing mode



▼ Empty container



## TECHNICAL SPECIFICATIONS

X-ray source	X-ray tube
X-ray energy	160 keV
Penetration	6 mm steel
Dose per scan	0.1 μSv (typical)
Scanning speed	0.1 ~ 0.5 m/s
Scanned height	0 ~ 2.0 m (0.5 m from the surface of the scanner) 0 ~ 2.5 m (1.0 m from the surface of the scanner) 0 ~ 3.0 m (1.5 m from the surface of the scanner)
Lifting height	0 ~ 600 mm
Max. running speed	1 m/s
Dimensions	1990 mm (L) × 1140 mm (W) × 1500 mm (H)
Weight	1200 kg
Battery capacity	14 kWh
Charge time	6 hrs.
Operating time	8 hrs. (50% duty cycle)
Operation temperature	-20°C ~ +45°C
Storage temperature	-25°C ~ +55°C
Humidity	0% ~ 99% (non-condensing)



**NUCTECH COMPANY LIMITED** | Creating a Safer World

Address: 2/F Block A, Tongfang Building, Shuangqinglu,  
Haidian District, Beijing PRC

Postcode: 100084

Website: <http://www.nuctech.com>

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