WETAN™ R100

BACKSCATTER INSPECTION ROBOT
for vehicles and cargoes

Integrating contactless backscatter imaging technology with a user-friendly robot, WETAN™ R100 generates real-time images to find concealed contraband

WETAN
R Series

Smart, flexible, easy transport

Mobile and flexible, WETAN R100 is equipped with obstacle avoidance technology, 360-degree rotation, and a flexible platform. It can drive nearby or be carried by vehicle to further locations.

INTRODUCTION

Target Contraband

Accurately detects hidden contraband including drugs, explosives, and weapons concealed in moving or stationary vehicles and cargo.

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 secure locations.
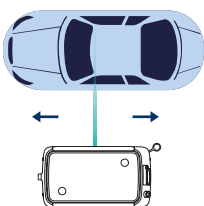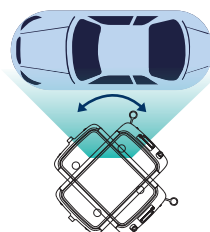
Scan Modes

Automatic: One-click scan
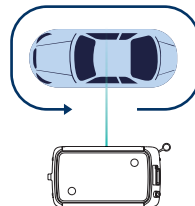
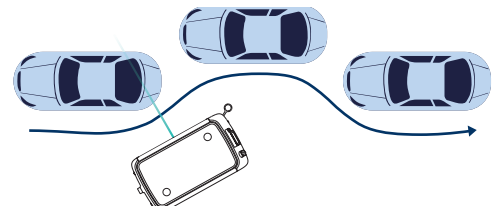Manual: Fully controlled by the operator

AUTOMATIC SCAN MODES

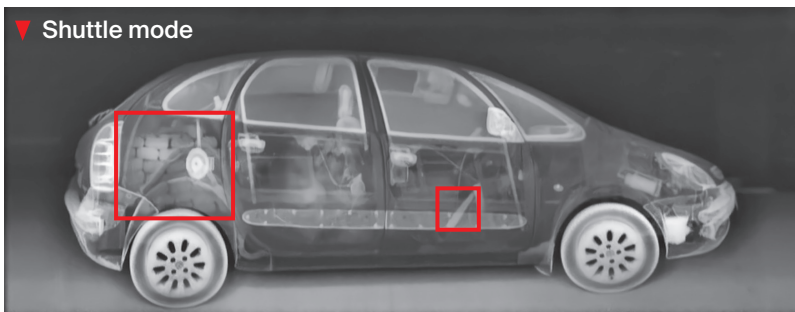❶ **Shuttle mode**   ❷ **Swing mode**   ❸ **Surrounding mode**   ❹ **Drive-along mode (Semi-automatic)**

SCANNED IMAGES
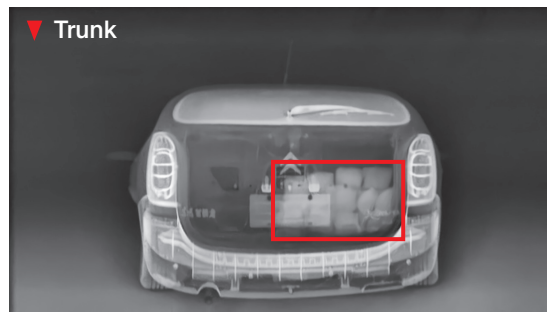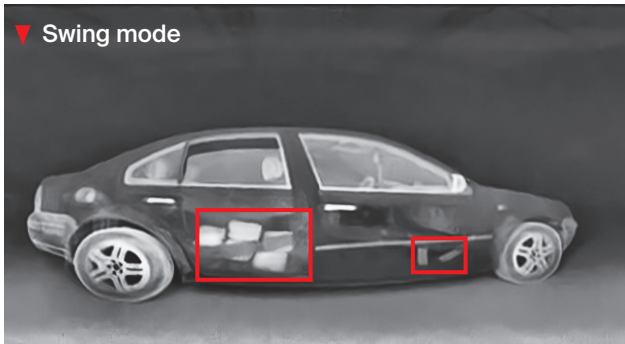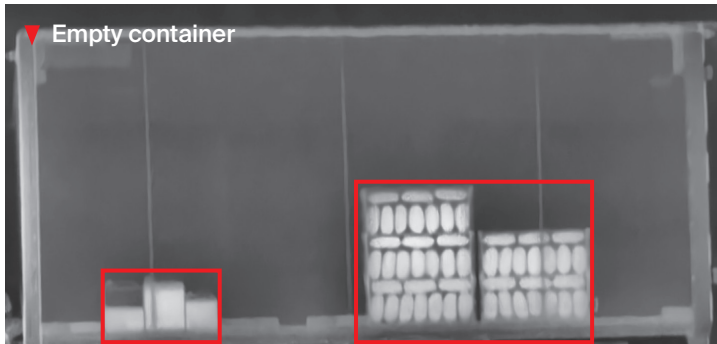
TECHNICAL SPECIFICATIONS

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℃ ~ +45℃
Storage temperature	-25℃ ~ +55℃
Humidity	0% ~ 99% (non-condensing)

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