

ITM2800 introduction

STATIONARY GANTRY PORTAL PASSENGER VEHICLE INSPECTION SYSTEM



ITM2800 is designed as a passenger vehicle and small cargo (including minibuses) screening system, with a higher penetration ability than ITM2900. The X-Ray is from top to bottom, which gives a better perspective than side scan, for detection of contraband, illegal drugs, weapons and other dangerous objects. It is equipped with a gantry rail which can move forwards and backwards over the cars and vehicles automatically, leaving the drivers and passengers outside the cars, thus zero radiation. The product is part of the cargo and vehicle inspection system family of products that complies with the ANSI 43.17 regulations for general use.

Intense of use

- ★ State-of-the-art low-dose 300 kV X-ray scanner with 3.5 m x 3.5 m portal-shaped detection system for inspection of occupied passenger vehicle
- ★ Designed for inspection of cars for detection of contraband, illegal drugs, weapons and other dangerous objects
- ★ Designed for operation at traffic control points and other places where total 100% cars inspection is necessary.
- ★ Designed with gantry rail which can move through the cars and vehicles automatically

KEY FEATURES

Gantry rail design moving the cars automatically

It's equipped with a gantry rail which can move forward the cars and vehicles automatically, leaving the drivers and passengers outside the cars, zero radiation

High penetration

The ITM2800 is designed with 300kv generator producing X-Ray from top to bottom, offering high-quality X-Ray images of inspected objects through 300 mm of steel at car speeds of 10 km/h.

High quality X-ray images

To ensure proper detectability of the concealed objects, the ITM2800 produces images with the 2% of the contrast sensitivity and 0.8mm copper wire detection capability.

Dual energy imaging

The ITM2800 has an automatic color coding for materials separation (3 colors) feature allowing distinguishing features between organic, non-organic and metal materials. This feature helps the operator to detect dangerous object from the various materials.

Radiation safety

The ITM2800 ensures the low dose for driver and passenger operation (complies with ANSI 43.17 standard) as well as protection of the operator. The inspection portal is equipped with the video surveillance system to avoid the inspection of the passer-by.

Automatic recognition of the licence plate number (option)

With the additional camera (option) the ITM2800 is able to identify and store the licence plate number of each scanned vehicle.

Under video vehicle surveillance (option)

Upon request, the ITM2800 can be provided with the video surveillance system for under-vehicle inspection

Physical Specifications

Equipment size	16.5(L) * 6.5(W) * 5.5(H) M
Installation area ideally	16.5(L) * 6.5(W) * 6.5(H)M

General Specifications

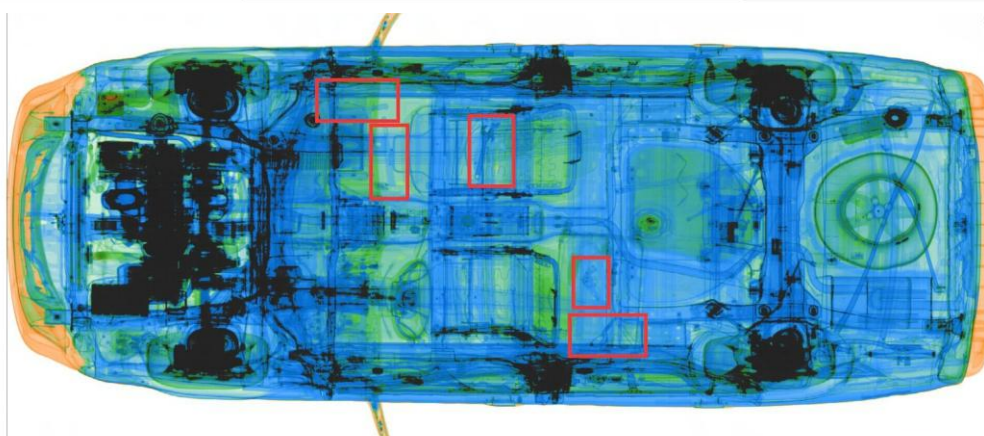
Tunnel size	3.5(L) * 3.5(H)m
Scanning Speed	5-10km/h
Typical throughput	150pcs vehicles/hour
Max Vehicle length	20m and extendable
Penetration	Typical 350mm steel, application 300mm steel
Wire Resolution	Dia 1.0mm copper wire
Mix Dose to passengers	<0.2μ sv/ scan
Dose rate outside	Public area<0.5μ sv compliant with IAEA standard
Power Consumption	Max. 3KVA
Operator 's workstation	PC-based workstation with the 24" LCD display

X-ray Generator(single)

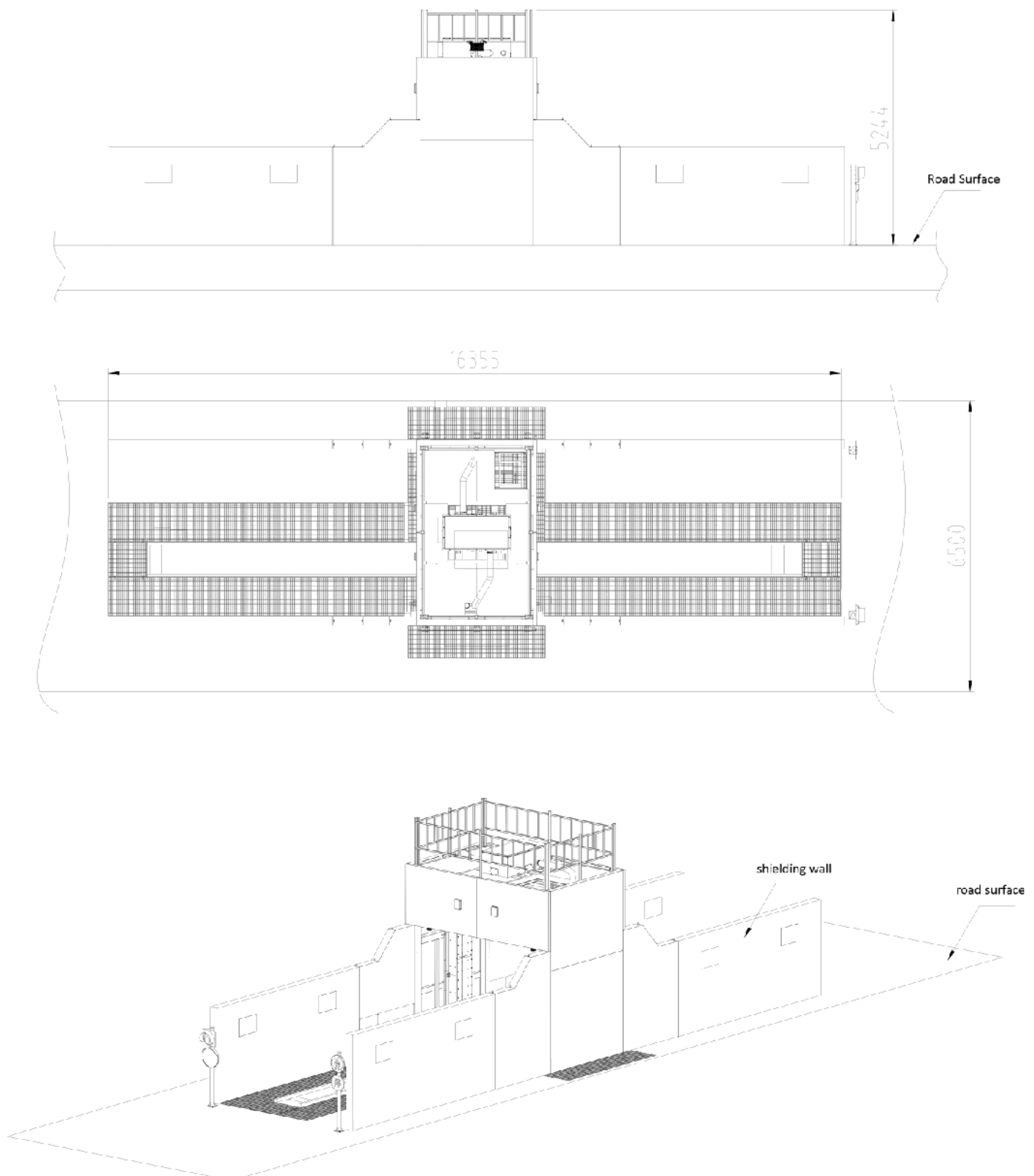
Dual energy accelerator	300kv
X-Ray direction	From top to bottom

Operating Environment

Operation temperature/Humidity	-15℃- 55℃/ 5℃- 95℃ (non- condensing)
Storage temperature/Humidity	-40℃- 70℃/ 5℃- 95℃ (non-condensing)
Operation Power	220VAC(±10% 50±3Hz (Optional:100VAC,110VAC,120VAC,200VAC)



General Layout



Remarks:

1. The area for equipment is 16.5m * 6.5m (another 3m height required for installation operations)
2. The height of the equipment
 - 2.1 The gantry rail need be built underground
 - 2.2 If can't do underground, should build extra base to put in the gantry rail