



**Milimeter-wave Body Inspection Equipment**



## OBE Terahertz Science And Technology Co., Ltd.

OBE & Capital Normal University Terahertz Joint Laboratory

OBE & Institute of Space Information Innovation, Chinese Academy of Sciences  
Millimeter Wave Technology R&D Center

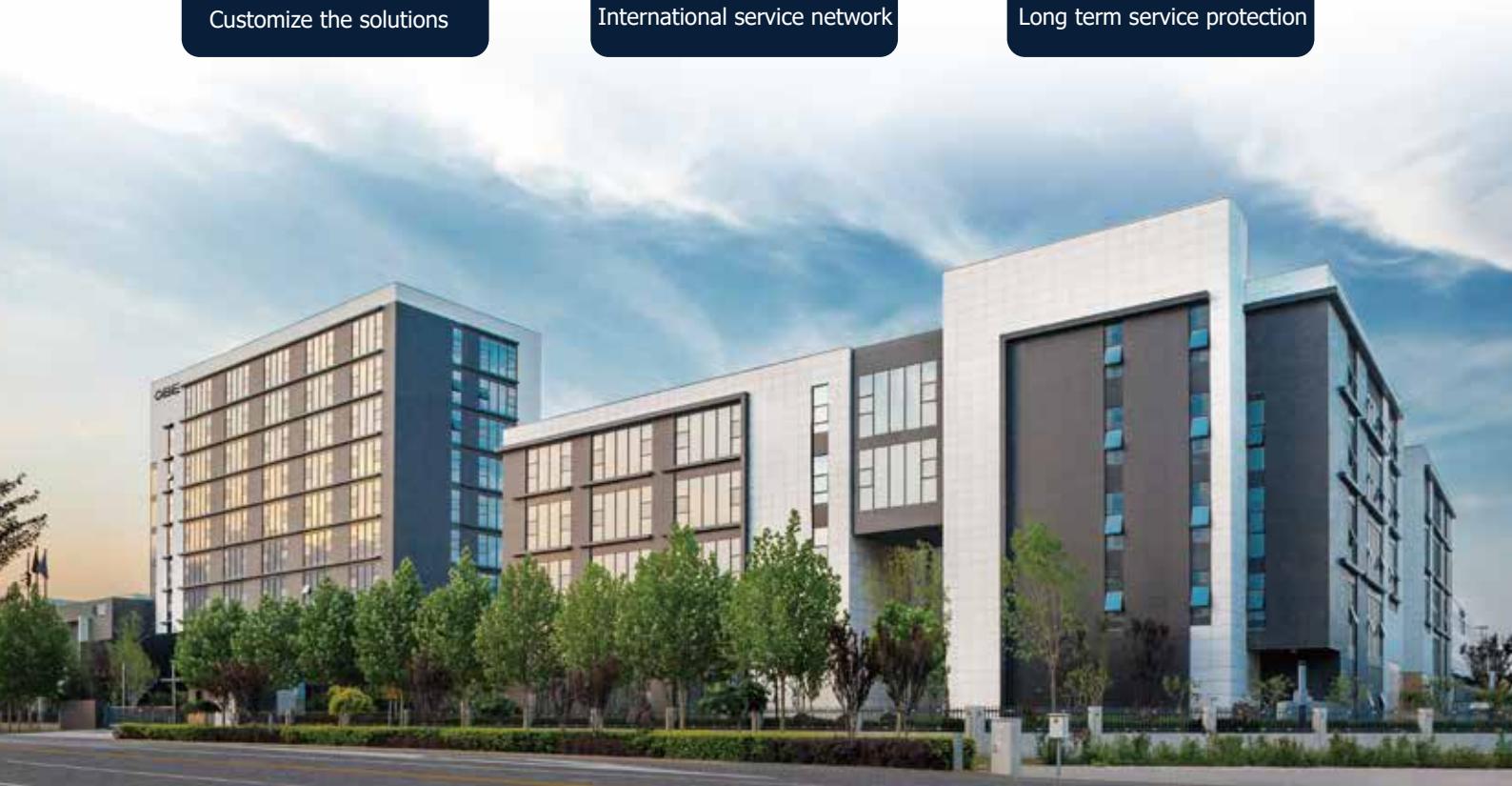
OBE Terahertz Company is a high-tech enterprise under OBE Technology Group. ,that is committed to research and development of new products, new technologies and new systems, has broken through a number of key technologies,independent researches and developments production of several type of millimeter wave, terahertz human security and human security devices, and combining the potential emotional intelligence analysis system, integrated information management platform, etc., to build the Intelligent security check system that incorporates the edge calculation, chain blocks, and cloud computing etc. , realizes from the core components, basic hardware and data services in areas such as completely independent controllable. It mainly provides integrated services for civil aviation, rail transit, public security and law department, customs, border inspection and enterprise internal security, helping customers solve public security problems.

In the future, OBE Terahertz Company will continue to increase investment in R&D, committed to the research of terahertz and millimeter wave technology, and will extend this cutting-edge technology to the military industry, nondestructive testing and medical detection in the fields of application, we will also play our strengths of platform of R&D center, base, fund and policy, promote Terahertz/Millimeter wave industry rapid and healthy development, make the world safer and better !

Customize the solutions

International service network

Long term service protection



# OBE Millimeter-wave Body Inspection Equipment

OBE millimeter-wave body inspection equipment adopts advanced multi-channel holographic imaging technology, the deep learning model integration technology, intelligent privacy protection technology, etc., for the close hiding metal and nonmetal material objects, realizes functions of 3D imaging, automatic recognition, automatic alarm, security seconds through, that is the new generation of intelligent security equipment, applies to the airports, customs, prisons, courts, important conferences and activities, enterprise internal security and other places.

The equipment is independently developed and produced by OBE. The item resolution ability reaches millimeter level, and some key technical indicators such as image quality and Detection rate of contraband have reached the international leading level of similar products.



Civil Aviation Administration of China safety inspection equipment class A2 certification



European CE certification

«Quality system certification», «Environmental management system certification», «Occupational health and safety management system certification», «No radiation detection report»



## Technical Feature



### non-contact

no contact throughout  
privacy protection in all directions  
the display effect is more intuitive



### safer

milliwatt radiation is harmless  
data encryption is asymmetric  
information transfer is safer



### more intelligent

switch mode in seconds  
diagnostic automation  
comprehensive Information



### more flexible

sample construction diversification  
strong target detection algorithm  
more professional customization



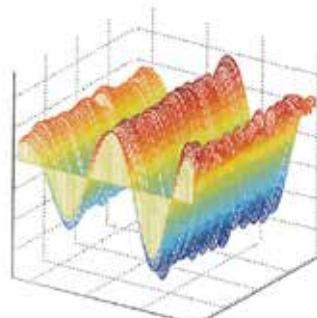
### more efficient

array scanning of the whole body  
high concurrency of data processing  
image acquisition is faster



### informatization

Own module component technology  
easier upgrade and maintenance  
system networking is more reliable



The back end displays 3D images  
The front end displays puppet images

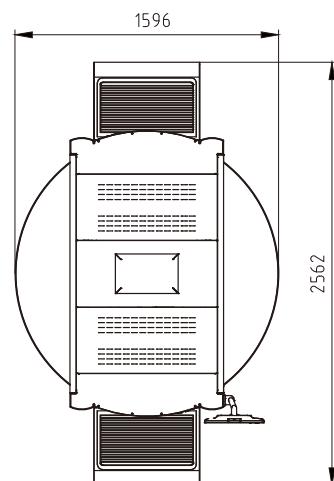
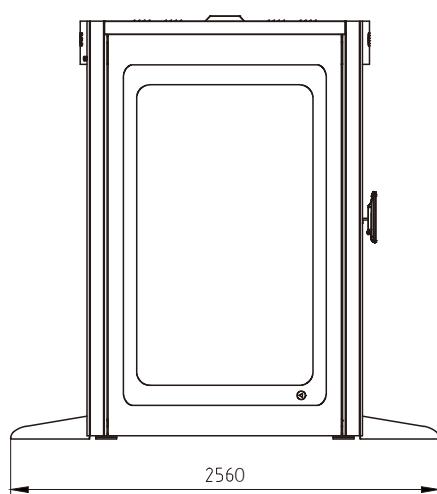
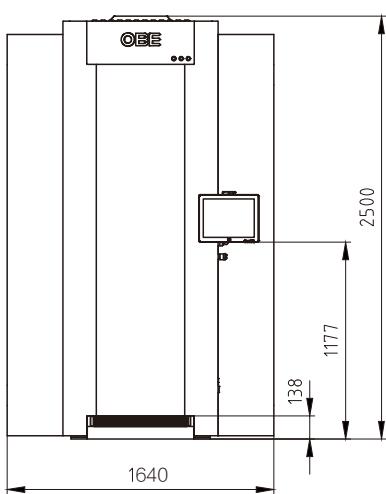
safety, adaptability and comfort

## Product Parameters

Device parameters		Test parameter	
Size	1640*2560*2500mm ( W x L x H )	Test items	cutters, ceramics, powders, liquids, etc
Weight	<660kg	Detection area	Height 0.1~2m , Width 1m
power supply	AC220V , 50Hz	Spatial resolution	superior to 6mm
Equipment power	<1kW	Detection rate	>90%
Operating Temp/Hum	0°C - 40°C ; 0 % ~ 93 % (no condensation)	Scanning time	<2s
Storage Temp/Hum	-40°C - 60°C ; 0 % ~ 95 % (no condensation)	Testing time	<3.5s

Image processing		Other features	
mark function	If something suspicious been reported, It can be automatically or manually marked	Working mode	Automatic/manual/hand check, convenient mode switch
Image processing function	Adjust contrast/brightness/chroma/false color, etc., to achieve the optimal effect	Data encryption	Image data is encrypted and stored in a special format
Privacy protection function	The detection structure is displayed in the form of a puppet , fuzzy processing of private parts	Telecommunication	State monitoring, operation parameters adjustment and alarm data upload on the internal network
		diagnostic function	Self-diagnosed in real time, the fault is reported in the form of pictures and pictures on screen display, automatically recovered when the fault is eliminated

## Dimension (units:mm)



front view

side view

top view



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