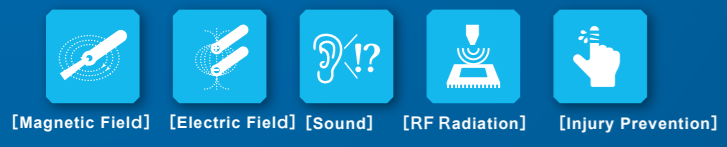


EMC Noise Scanner WM7000 series

All genuine Probe sensors, 4 categories and 17 varieties.

There are 17 kinds of probes for different purposes including 11 kinds of near magnetic field probes, 3 kinds of electric field probes, 1 kind of probes in acoustic wave and ultrasonic wave, and 2 kinds of probes in electromagnetic wave radiation.

All of them are designed and developed for use in the wm7000 series.



Near Field Magnetic Probe VF · HC · VC

A near magnetic field probe with a sealed loop construction corresponding to VCCI specification. 11 kinds of probe are available differs from the shape, size, direction (horizontal and vertical) of the coil, all of them are patented.



Near Field Magnetic Probes

Title	Model	Frequency	Sensitivity	Resolution
Vertical flat 0.5mm	VF005	~8GHz	-56dB	0.10mm
Vertical flat 1mm	VF010	~6GHz	-47dB	0.17mm
Vertical flat 2mm	VF020	~3GHz	-45dB	0.29mm
Vertical flat 5mm	VF050	~3GHz	-37dB	0.66mm
Vertical flat 10mm	VF100	~2GHz	-34dB	1.26mm
Horizontal Circle 1mm	HC010	~3GHz	-48dB	0.35mm
Horizontal Circle 2mm	HC020	~2GHz	-40dB	0.55mm
Horizontal Circle 5mm	HC050	~1GHz	-30dB	1.22mm
Vertical Circle 1mm	VC010	~3GHz	-46dB	0.39mm
Vertical Circle 2mm	VC020	~2GHz	-37dB	0.60mm
Vertical Circle 3mm	VC050	~1GHz	-30dB	1.20mm

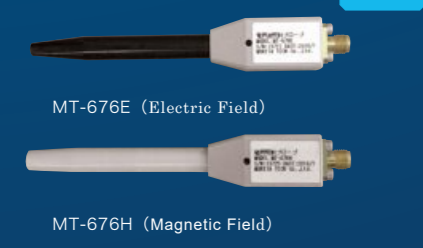
Electric Field Probe EH

There are 3 kinds of probe are available with a front-end diameter of 1mm, 2mm, and 5mm, because of the shape of the probes is almost same as the near magnetic field probe, the test results can be compared with the test results of the near magnetic field measurement.



Electromagnetic Probe MT-676E/H

It can determine and infer the parts or components with strong electromagnetic sensitivity. Through the emission of weak electromagnetic wave, the visualization of electromagnetic invasion route is realized. There two types of electric radiation and magnetic probe are available.



Sound Sensor MT-772

Frequency range is 10Hz~100KHz. It can be applied to the measurement of sound pressure distribution from audible frequency to ultrasonic frequency. It is developed for visualization of noise of condenser or measurement of sonar sound pressure distribution.



Option Protective Cover

An acrylic protective cover used for injury prevention and dust prevention measures. The protective cover with rolling shutter door is easy to operate. The cover can be customized in an interlock type and so on.



The related and optional products

Shield box for WM7400

Shield the external noise outside the box

Please use the shield box when the external electric field environment or the electromagnetic noise environment in the workplace is bad, or when the electromagnetic radiation probe is planned to be used for testing. Equipped with Morita technology's unique "Hand in structure" through pipe, all kinds of control lines and power lines can pass through the through pipe to connect with the object under test.

Frequency range: 600MHz-6GHz
Shield efficiency: 60dB~
Size: W840mm×D940mm×H1750mm weight : 150kg



Options for WM7000 series

Concomitant use with the options, the operation becomes more simple

Make wm 7000 series more convenient and easier to operate. Variety, easy to use and stable operation are the unique value of "pure products". You can feel free continue to use WM7000 series products for ever.

WM7000 series optional products

Model No.	Description
Opt.8GHz	Built-in preamplifier changed from 3GHz to 8GHz
Opt.002A	USB-GPIB adapter for Spectrum analyzer
Opt.3D	3D measurement / 3D scan measurement software
Opt.004	shielding box for WM7400
Opt.005	Probe case (up to 10 probes)
Opt.009-MTxxx	MT-545/676/742/772 bracket
Opt.013	WM7400 protective cover (acrylic,rolling shutter)
Opt.013A	WM7300 protective cover (acrylic,rolling shutter)
Opt.H200	WM7400 scan height changed from 100mm to 200mm
Opt.H250	WM7300 scan height changed from 200mm to 250mm

WM7000 series high performance EMC noise scanner

Model No.	Description
WM7400	high performance EMC noise scanner (A4 size)
WM7300	high performance EMC noise scanner (A3 size)

Standard accessories: measurement controller (laptop), measurement control software, analysis software (viewer) RF cable, LAN cable, USB cable, preamplifier (3GHz)
* in addition, spectrum analyzer should be prepared

Manufacturer
MORITATECH Morita Tech Co.,Ltd.
 〒206-0804
 2113-4 Momura, Inagi-shi, Tokyo, 206-0804, JAPAN
 TEL : 042-401-6330 FAX : 042-401-6331
 e-mail : info@morita-tech.co.jp HP : www.morita-tech.co.jp



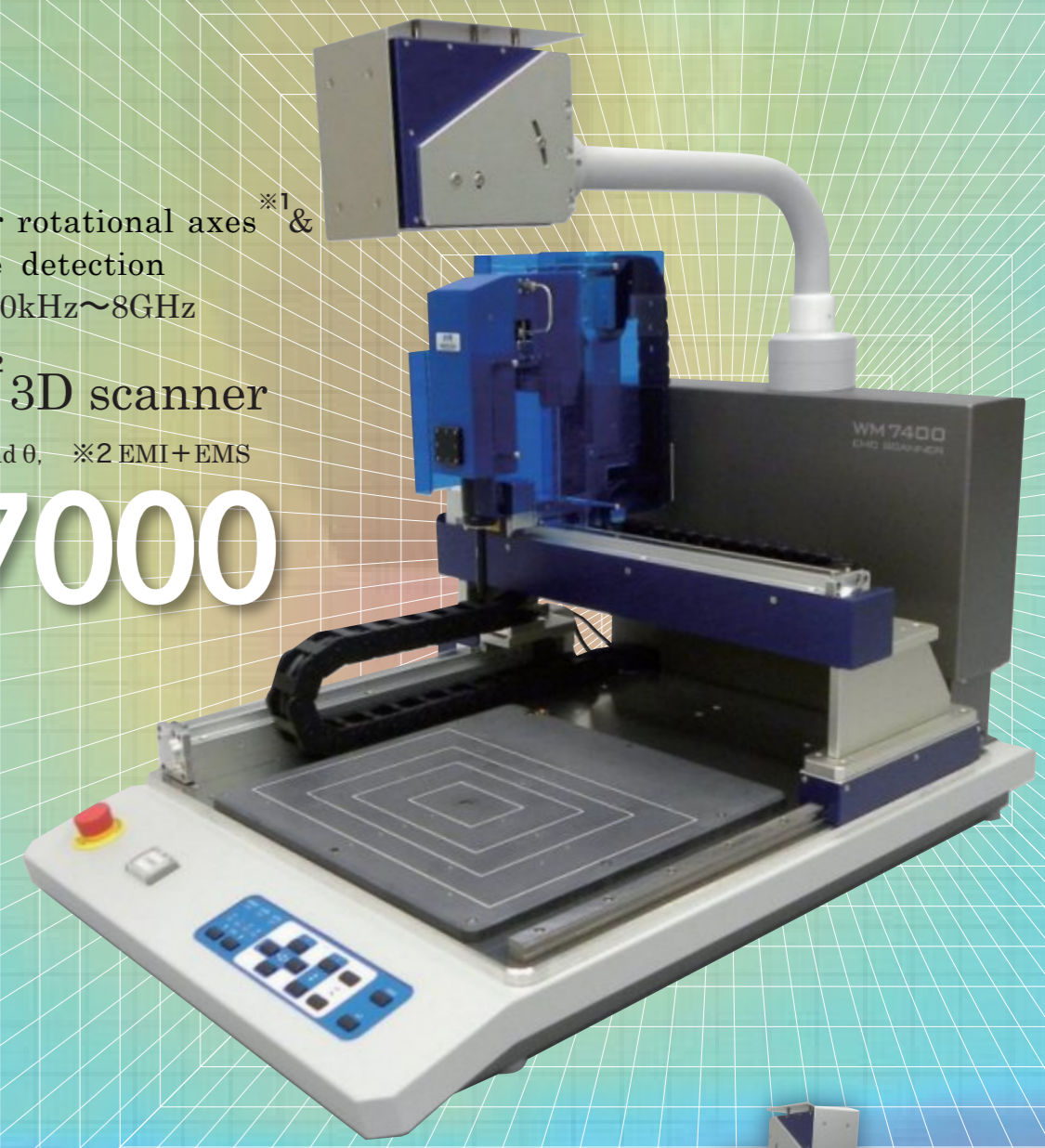
Distributor
 [Blank space for distributor information]
 2105C20-1

Straight axis and four rotational axes^{※1} & Omnidirectional noise detection
 Newest in industry : 150kHz~8GHz

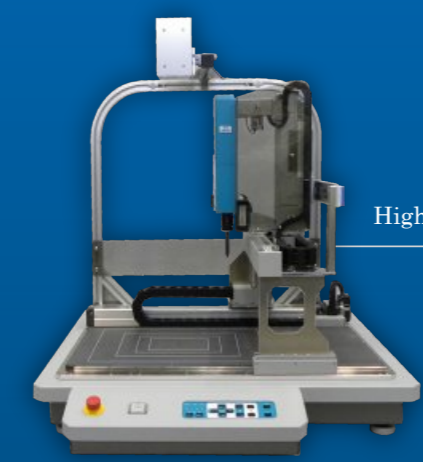
The real EMC^{※2} 3D scanner

※1 Rotational axes: X, Y, Z, and θ. ※2 EMI+EMS

WM7000 Series



A4 High performance EMC noise scanner (A4 size) WM7400



High performance EMC noise scanner (A3 size)

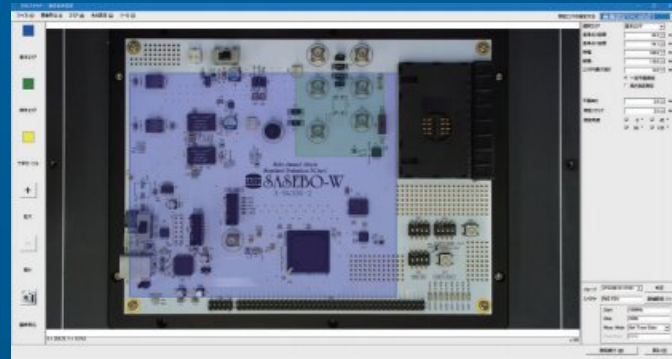
WM7300 / A3

Easy Handy Quick

This EMC scanner can use a very new [image mode] to measure, without the previous "contact, learning" operation, from setting the object to the end of measurement can be completed in a very short time. The application of the functions such as "spot EMC measurement" and "3D measurement" can provide a new breakthrough for solving EMC problems. The viewer software can be downloaded from the website for free. The function of overlapping DUT image, CAD image and Electromagnetic field strength map is the standard function of the scanner.

1 The basic area can be set only with mouse, easy to operate Image Mode

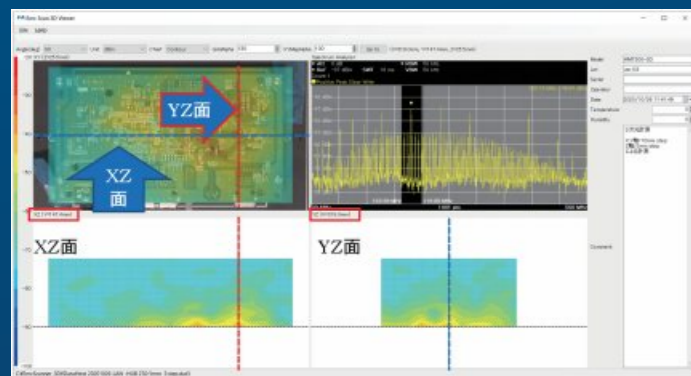
In the captured image, the Measurement area can be set intuitively. You can only use the mouse to set the basic area and special area (areas with different heights or areas that you don't want to measure). The "Constant height mode" of measuring the height of the circuit board with laser sensor can be realized simply by selecting the mode in PC.



It can measure the height of the test object in 0.5mm minimum step automatically.

3 The optional 3D measurement software WM7000-3D

By adding the measurement function in the height direction (Z-axis direction) of the probe, the three-dimensional space test is realized. The step on X, y and Z axes can be set respectively. It is most suitable for 3D measurement of electromagnetic interference, measurement of electromagnetic distribution map of IH and other strong electromagnetic products, and measurement of near electric field distribution of microstrip antenna, etc.

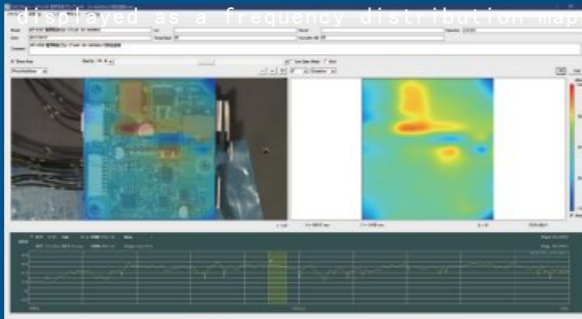


3D viewer software



2 Visualization of the invasion path of spatial electromagnetic field Partial EMS Test

Put MT-676E (electric field) and MT-676H (magnetic field) probe on the Z-axis of the scanner. The signal sent by the tracking generator of the network analyzer is used as weak electromagnetic wave to irradiate the circuit board at a distance of only a few millimeters. The invasion condition inside the circuit board is displayed in a frequency distribution way to realize visualization.



EMS test can be an effective means of "radiosensitivity countermeasures".

4 EUT with a certain height can be tested Changeable test height

If the EUT has a certain height or uses wm7000-3D software for 3D test, you can choose to change the height of Z axis (please let us know before ordering). The test height of wm7400 can be changed from 100 mm to 200 mm, and test height of wm 7300 can be changed from 200 mm to 250 mm. Test height range: 50-250mm



left is the wm7400 when the test height becomes 200 mm

Product Lineup (WM7400, WM7300)

Up to A4 size,
Long objects with a A3
size also applicable

A4 8G

WM7400

Desktop size

The best sold EMC noise scanner

It only needs a small space same as the body size (490×709mm) of the scanner. It can be easily placed on the table in the laboratory or shielding room, which is very suitable for the test of A4 size objects.

WM7400 Specifications

Measurement Range	W300mm×D215mm×H100mm (the range of camera, A4size)
Measurement Method	Near magnetic field scanning type probe with laser range finder
Positional Accuracy (X,Y,Z)	±0.01mm (in the case of single direction movement)
Positional Accuracy (θ)	±1.0°
Frequency Range	150kHz~3GHz (standard) /150kHz~8GHz (Opt.8GHz)
Minimum Scanning Step	0.1mm
Dimensions	W490mm×D709mm×H620mm (excluding connectors or protruding objects)
Weight	About 42kg (main unit only)
Input Voltage	AC100V~240V
Power Consumption	150VA (MAX) (excluding the spectrum analyzer)



A3 Long

WM7300

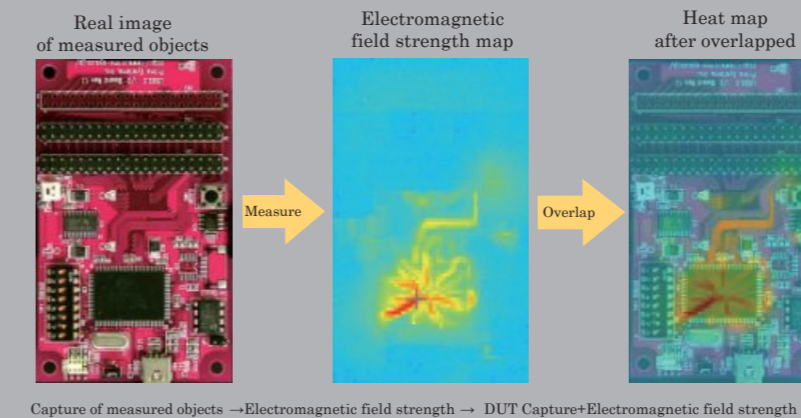
Linear type object
pass-through structure design

It covers an area of A3 size and a height of 200 mm (or 250 mm). It can be used to place linear objects to be tested, such as long measured object (EUT), load, LISN (AMN), BCI probe, DC power supply, etc. The setting of EUT has also become very easy.

3D display
of noise distribution
(standard function)

WM7300 Specifications

Measurement Range	W420mm×D297mm×H200mm (the range of camera, A3 size)
Measurement Method	Near magnetic field scanning type probe with laser range finder
Positional Accuracy (X,Y,Z)	±0.01mm (in the case of single direction movement)
Positional Accuracy (θ)	±1.0°
Frequency Range	150kHz~3GHz (standard) /150kHz~8GHz (Opt.8GHz)
Minimum Scanning Step	0.1mm
Dimensions	W850mm×D770mm×H890mm (excluding connectors or protruding objects)
Weight	About 72kg (main unit only)
Input Voltage	AC100V~240V
Power Consumption	150VA (MAX) (excluding the spectrum analyzer)



Capture of measured objects → Electromagnetic field strength → DUT Capture+Electromagnetic field strength map