

MT8872A

Universal Wireless Test Set

Operation Manual

10th Edition

- For safety and warning information, please read this manual before attempting to use the equipment.
- Additional safety and warning information is provided within the MT8870A Universal Wireless Test Set Operation Manual. Please also refer to it before using the equipment.
- Keep this manual with the equipment.

ANRITSU CORPORATION

MT8872A
Universal Wireless Test Set
Operation Manual

22 May 2013 (First Edition)
21 January 2022 (10th Edition)

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The operational instructions of this manual may be changed without prior notice.

Printed in Japan

CE Conformity Marking

Anritsu affixes the CE conformity marking on the following product in accordance with the Decision 768/2008/EC to indicate that it conforms to the EMC, LVD, and RoHS directive of the European Union (EU).

CE marking



1. Product Model

Model: MT8872A Universal Wireless Test Set

2. Applied Directive

EMC: Directive 2014/30/EU

LVD: Directive 2014/35/EU

RoHS: Directive 2011/65/EU, (EU) 2015/863

3. Applied Standards

- EMC: Emission: EN 61326-1: 2013 (Class A)
Immunity: EN 61326-1: 2013 (Table 2)

	Performance Criteria*
IEC 61000-4-2 (ESD)	B
IEC 61000-4-3 (EMF)	A
IEC 61000-4-4 (Burst)	B
IEC 61000-4-5 (Surge)	B
IEC 61000-4-6 (CRF)	A
IEC 61000-4-11 (V dip/short)	B, C

*: Performance Criteria

A: The equipment shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

- B: The equipment shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
- C: Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

Harmonic current emissions:

EN 61000-3-2: 2014 (Class A equipment)

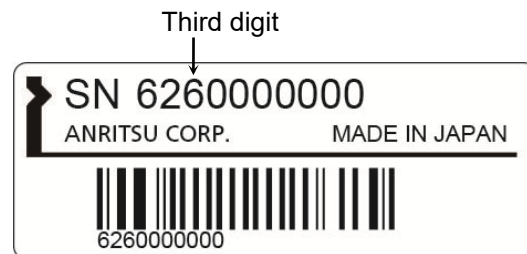
- LVD: EN 61010-1: 2010 +A1:2019 (Pollution Degree 2)
- RoHS: EN IEC 63000:2018 (Category 9)

If the third digit of the serial number is "7", the product complies with Directive 2011/65/EU as amended by (EU) 2015/863.

(Pb,Cd,Cr6+,Hg,PBB,PBDE,DEHP,BBP,DBP,DIBP)

If the third digit of the serial number is "6", the product complies with Directive 2011/65/EU.

(Pb,Cd,Cr6+,Hg,PBB,PBDE)



Serial number example

4. Contact

Name:	Anritsu GmbH
Address, city:	Nemetschek Haus, Konrad-Zuse-Platz 1 81829 München,
Country:	Germany

UKCA Marking

Anritsu affixes the UKCA marking on the following product in accordance with the guidance to indicate that it conforms to the EMC, LVD, and RoHS regulations in the United Kingdom.

UKCA marking



1. Product Model

Model: MT8872A Universal Wireless Test Set

2. Applied Regulations

EMC: S.I. 2016 No. 1091

LVD: S.I. 2016 No. 1101

RoHS: S.I. 2012 No. 3032

3. Applied Standards

- EMC: Emission: EN 61326-1: 2013 (Class A)
Immunity: EN 61326-1: 2013 (Table 2)
- LVD: EN 61010-1: 2010 +A1:2019 (Pollution Degree 2)
- RoHS: EN IEC 63000: 2018 (Category 9)

4. Contact

Name: ANRITSU EMEA Ltd.
Address, city: 200 Capability Green, Luton
Bedfordshire, LU1 3LU
Country: United Kingdom

RCM Conformity Marking

Anritsu affixes the RCM mark on the following product in accordance with the regulation to indicate that it conforms to the EMC framework of Australia/New Zealand.

RCM marking



1. Product Model

Model: MT8872A Universal Wireless Test Set

2. Applied Standards

EMC: Emission: EN 61326-1: 2013 (Class A equipment)

Manual Change

The MT8872A is a modified version of the MT8870A.

The following table shows the differences between the MT8870A and the MT8872A.

Refer to the *MT8870A Universal Wireless Test Set Operation Manual (W3605AE)* for further information.

Manual Change from MT8870A Operation Manual

Section	MT8870A	MT8872A
-----	MT8870A	MT8872A
1.1	Up to four MU887000A/01A modules or two MU887002A modules can be installed in the MT8870A for testing multiple mobiles simultaneously. Two MU887000A/01A modules and one MU887002A module can be installed together.	Up to two MU887000A/01A modules or one MU887002A module can be installed in the MT8872A for testing multiple mobiles simultaneously.
1.2	(1) Test up to four wireless devices Up to four MU887000A/01A modules or two MU887002A modules can be installed in the MT8870A to test multiple wireless devices simultaneously. Two MU887000A/01A modules and one MU887002A module can be installed together.	(1) Test up to two wireless devices Up to two MU887000A/01A modules or one MU887002A module can be installed in the MT8872A to test multiple wireless devices simultaneously.
1.3.1	Table 1.3.1-1	See Table 1.3.1-1 in page 3.
1.3.5	Table 1.3.5-1	See Table 1.3.5-1 in page 3.
2.1.2	Figure 2.1.2-1, Figure 2.1.2-2	See Figure 2.1.2-1 and Figure 2.1.2-2 in page 4.
2.1.4	2.1.4 Mounting units in rack An optional rack mount kit is required to mount units in a rack. For details on rack mounting, refer to the instructions supplied with the rack mount kit	(Delete)
2.2.1	Figure 2.2.1-1 Table 2.2.1-1 Slots 1 to 4	See Figure 2.2.1-1 in page 5. Slots 1 to 2
2.2.2	Figure 2.2.2-1 Table 2.2.2-1 Linked to each of slots 1 to 4.	See Figure 2.2.2-1 in page 5. Linked to each of slots 1 to 2.
2.5.1	Figure 2.5.1-1 to Figure 2.5.1-3	See Figure 2.5.1-1 to Figure 2.5.1-3 in page 6.
2.5.2	Connectors 1 to 4 correspond to slots 1 to 4.	Connectors 1 to 2 correspond to slots 1 to 2.
2.5.3	Figure 2.5.3-1	See Figure 2.5.3-1 in page 7.
2.6.1	Table 2.6.1-1 n is the number of the slot (1 to 4).	See Table 2.6.1-1 in page 7. n is the number of the slot (1 to 2).
Appendix A	Number of slots 4 Connectors Trigger Four BNC-J connectors on rear panel GPIB*4 Four IEEE488 bus connectors on rear panel	Number of slots 2 Connectors Trigger Two BNC-J connectors on rear panel GPIB*4 Two IEEE488 bus connectors on rear panel
	Dimensions 426 (W) × 221.5 (H) × 498 (D) mm Mass ≤ 11.5 kg (excluding options and modules) ≤ 30 kg (including options and modules) Power supply Power consumption: 900 VA max.	Dimensions 250 (W) × 221.5 (H) × 498 (D) mm Mass ≤ 9.5 kg (excluding options and modules) < 18 kg (including options and modules) Power supply Power consumption: 500 VA max.

Table 1.3.1-1 Standard Configuration

Items	Model/Code	Name	Qty	Remarks
Main Unit	MT8872A	Universal Wireless Test Set	1	
Standard Accessories	J0491	Shielded Power Cord, 3 m	1	
	B0666B	Blank Panel	0 to 2	Covers slots with no Module installed.
	MX880050A	CombiView		
	MX880051A	Cellular Application Applet		
	MX880052A	SRW Application Applet		
	MX880053A*	FM/Audio Application Applet		
	MX880054A	Signal Generator Application Applet		
	MX880055A	Small Cell Application Applet		
	MX880056A	IEEE 802.15.4 Application Applet		
	MX880057A	Z-Wave Application Applet		
	MX887900A	MT8870A Utility Tool		
	W3605AE	MT8870A Universal Wireless Test Set Operation Manual		
	W3674AE	MT8872A Universal Wireless Test Set Operation Manual		

*: Supported only by the MU887000A/01A.

Table 1.3.5-1 Application Parts

Model/Code	Name	Remarks
W3605AE	MT8870A Universal Wireless Test Set Operation Manual	English, storage media (DVD, etc.)
W3674AE	MT8872A Universal Wireless Test Set Operation Manual	English, storage media (DVD, etc.)
J0576B	Coaxial Cord, 1.0 m	N·P·5D·2W·N·P
J0576D	Coaxial Cord, 2.0 m	N·P·5D·2W·N·P
J0127A	Coaxial Cord, 1.0 m	BNC·P·RG58A/U·BNC·P
J0127C	Coaxial Cord, 0.5 m	BNC·P·RG58A/U·BNC·P
J0007	408JE-104 GPIB Cable, 1.0 m	408JE-101
J0008	GPIB Cable, 2.0 m	408JE-102
B0684A	Carrying Case (MT8872A)	
B0666B	Blank Panel	
B0685A	Front Cover For 3/5MW5U	

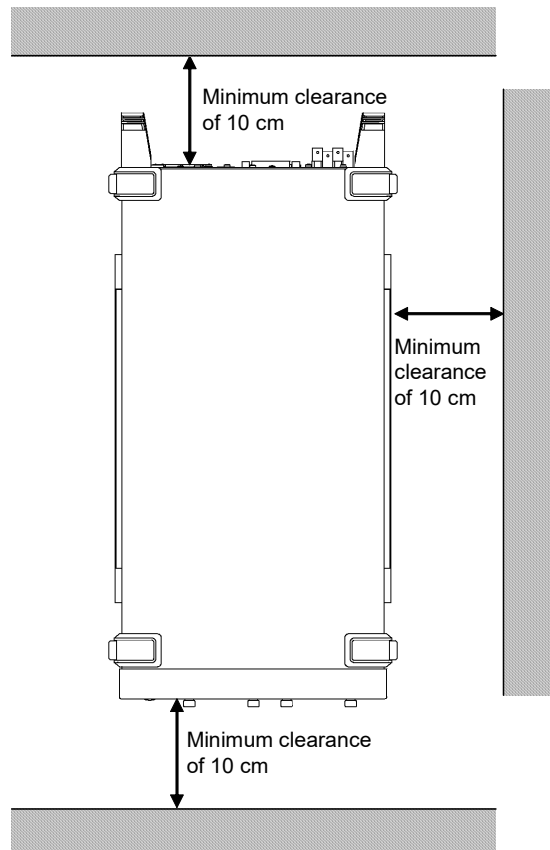


Figure 2.1.2-1 Installation Location

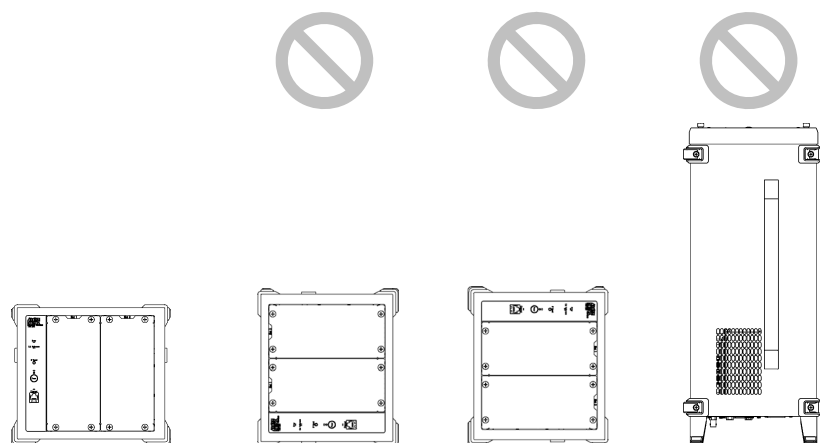


Figure 2.1.2-2 Installation Orientation

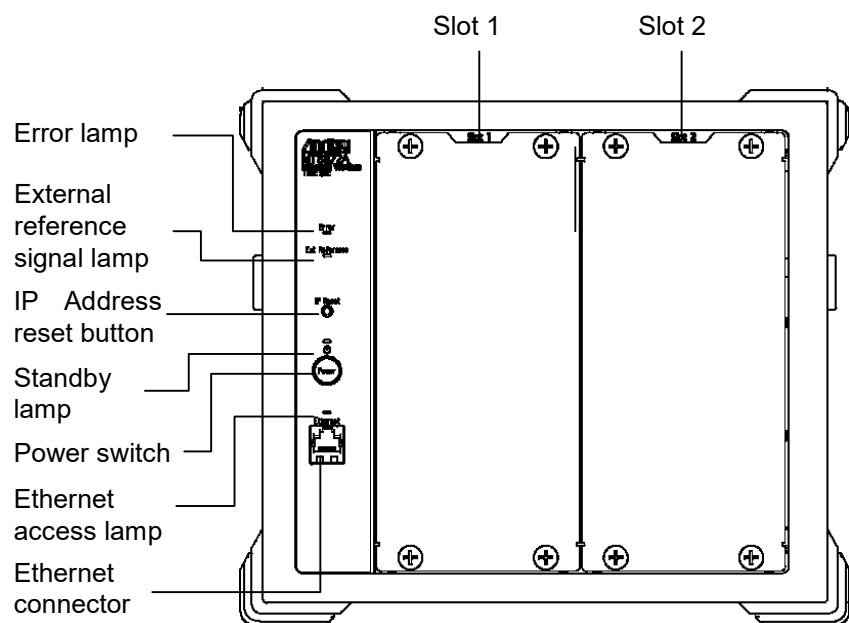


Figure 2.2.1-1 MT8872A Front Panel

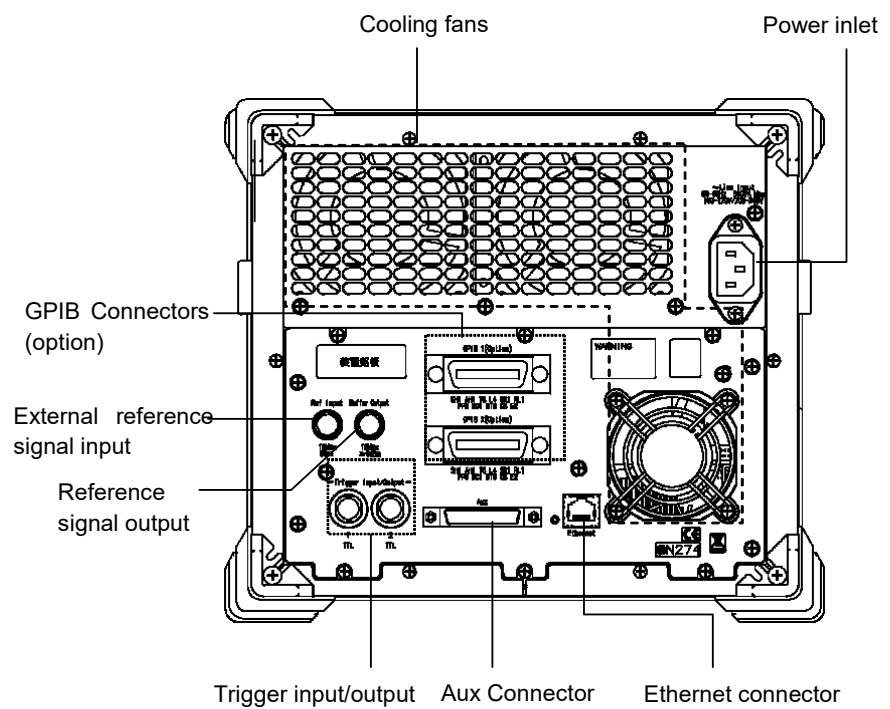


Figure 2.2.2-1 MT8872A Rear Panel

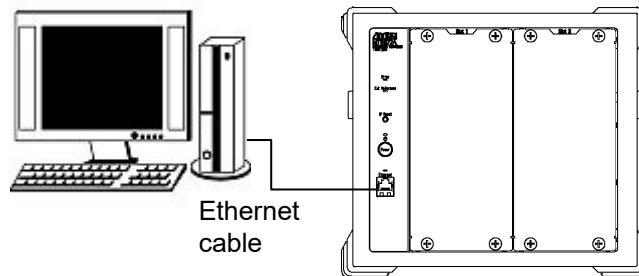


Figure 2.5.1-1 Connecting to Front Ethernet Connector

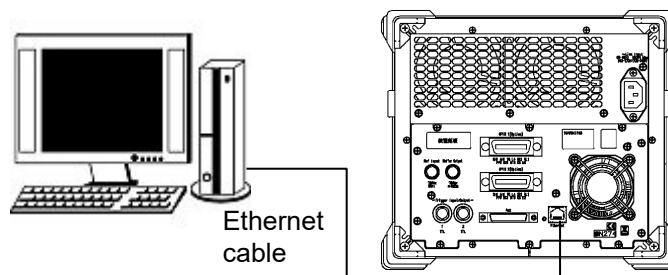


Figure 2.5.1-2 Connecting to Rear Ethernet Connector

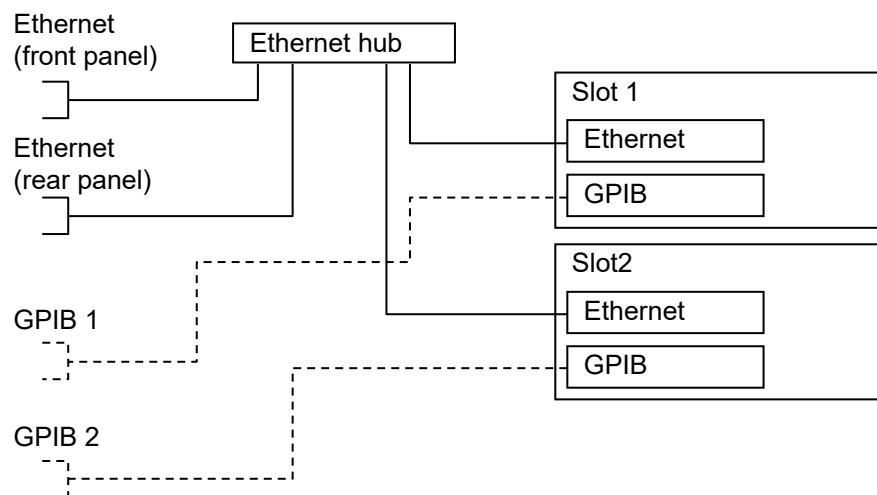


Figure 2.5.1-3 MT8872A Internal Signal Connections for Remote Control

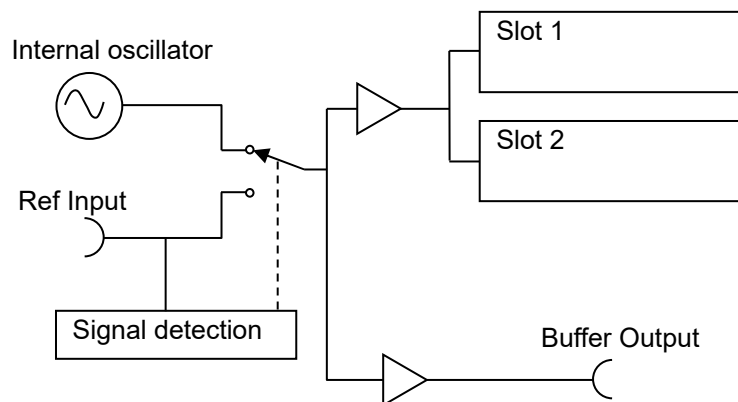


Figure 2.5.3-1 MT8872A Internal Reference Signal Connection Block Diagram

Table 2.6.1-1 Initial IP Addresses

Slot Number	IPv4 Address	IPv6 Address/Prefix Length
1	192.168.1.1	0/0
2	192.168.1.2	0/0
