



UM-880A

UM-880D

USER GUIDE

Wireless Signal Distribution System

Customer Service Hotline: 400-707-68

Guangzhou Ruifeng Digital Technology Co., Ltd.

TEL: +86 2039280388

FAX: +86 2039280123

E-mail: lax@lax-pro.com

[Http://www.lax-pro.com](http://www.lax-pro.com)

v.2.0 27/05/2023

This instruction manual is for reference only and is subject to change without notice

PREFACE

1. Welcome

Sincerely thank you for your trust and support in our company's products. We welcome you to join our user team. This product has a solid structure, stable and reliable performance, easy operation, and more importantly, it can present the beauty of sound. Whether you are a singer, instrument performer, or karaoke enthusiast, your performance can be better played as soon as possible.

1.1 Unpacking inspection

Open the box and inspect your new device. If damage is found, please notify the shipping company immediately. And as the consignee, you can claim compensation from the transportation company for damage caused during transportation.

1.2 Feature

The active directional antenna adopts a log periodic dipole array. Provide a 2-in-1 high gain reception capability for wireless systems in the UHF frequency range of 500-950MHz, and the receiving frequency band covers the whole UHF channel. Provide ideal long distance and stable receiving performance for diversity UHF wireless systems. In addition, it may also be used as a common antenna for multi-channel wireless systems.

The antenna distributor is designed for the application of long distance reception and transmitting. Such as gyms, concerts, theaters, and large performance venues, or some environments which can be blocked sight and receive. And it is easily to install and remove . portable to carried.

This antenna can be used with all UHF receivers. And provide directional coverage reception in a fixed frequency band with a 180 degree angle.. Compared to the standard antenna included with the receiver, the antenna booster can provide a 6dB RF signal boost at 50 ohms impedance.

The antenna is constructed with industrial standard glass copper and copper film coating, providing durability, corrosion resistance, UV resistance, shock resistance, and lightweight characteristics. It can perform for a long time and stably in different environments. The integrated TNC terminal of the antenna provides high-quality and low impedance characteristics, and can reduce the tension of the connecting line. Only use antennas for receivers or distribution systems that can provide 8V DC bias.

CONTENTS

Preface	1
Manufacturer`s Declarations	3
Front panel effect	3
1 year warranty	4
Warning	5
Notes	6
Active antenna Part`s name & Functions	7
Active Antenna Divider Parts name & Functions	8
Installation instructions	9
Accessories List / Connection Diagram	10
Directional Antenna / Antenna divider Technical Parameter	11
Service Reminder	12
Product Warranty card	13
QC card	15

CERTIFICATE

(Model)

(QA)

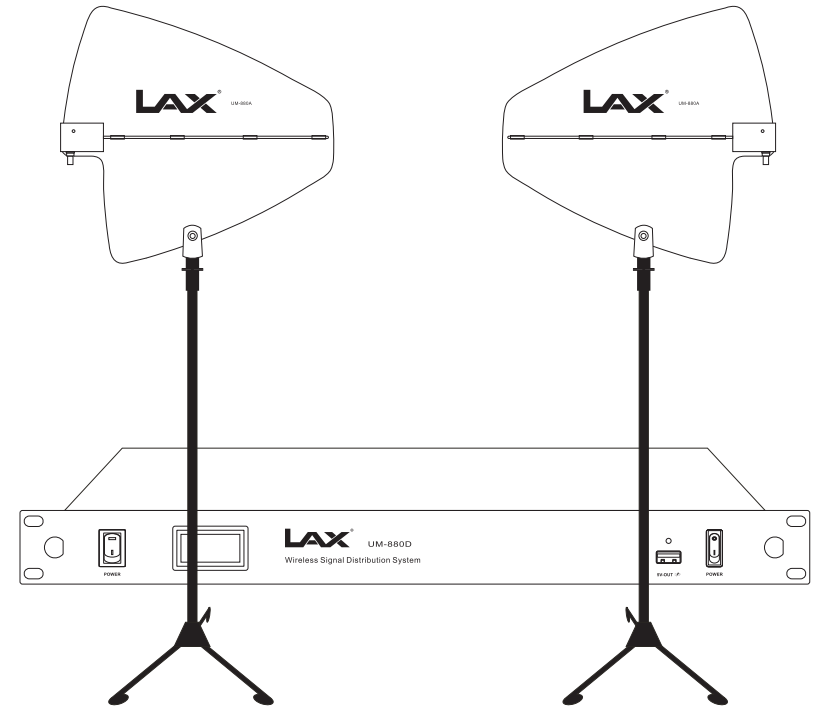
(DATE)



Manufacturer`s Declarations

User`s Guide is for informational purpkses only and subject to change without notice

Front panel effect



1 year warranty

When you, a noble customer, purchased any series of LAX products from our authorized dealer, since then, you will receive a 1-year warranty commitment from LAX. Please keep your invoice or receipt properly. Because that's the credentials of the buyer and supporting documents at the time of warranty. In this year, due to the defects of components or the transportation process, your LAX products have been sold out if the current performance does not meet our published standards or has quality problems, you can get warranty from LAX authorized service center (free of parts fee and maintenance fees), and we apologize for the inconvenience.

Warranty restrictions

The company will provide maintenance services for any components that need to be replaced due to quality reasons (except for quality problems in the warranty restrictions). When your product is handed over to an authorized service center for warranty, we will try our best to repair your product in the shortest possible time, and get back to you as soon as possible. We apologize for any inconvenience caused.

Warranty service

The company will provide maintenance services for any components that need to be replaced due to quality reasons (except for quality problems in the warranty restrictions). When your product is handed over to an authorized service center for warranty, we will try our best to repair your product in the shortest possible time, and get back to you as soon as possible. We apologize for any inconvenience caused.

Terms of service

When your product needs repair service, please be sure to write or call the address of the repair center or authorized dealer to ask how to send the product that needs warranty to the authorized repair center or repair factory. After you purchase any series of products from our company, please keep the product packing box and accessories in a safe place so that you can use them when you need to mail or transport them. But you have to pay for the postage or car or transportation for the warranty product yourself.

If you are not satisfied with the products repaired by our service center, you can contact the head office or the general agent in the area where the customer is located. If the product still has quality problems after many replacement parts or repairs, you can choose to refund, and we will return the money you purchased the product to you. However, the payment does not include transportation costs, transportation costs, interest on payment, insurance premiums, product accessories and other decorative costs. If a refund is required, you must also get written confirmation from the service center that it is not one of the warranty limitations.

Component changes

The company reserves the right to make changes to all or part of the parts of the product, and give priority to the parts of the latest version of the product during the warranty period, so as to provide you with more powerful and higher-performance products. If the product you purchased has been discontinued during the warranty period, we will have to provide you with the latest parts, please forgive me.

Declaration of accidental damage

You, a valued customer, will not be compensated by LAX for other losses incurred directly or indirectly due to equipment damage.
Hereby declare!

Warranty change statement

This warranty is protected by law and no one is authorized to expand, modify or revise its contents. The scope of this warranty will not be extended with the time you use the company's products. Free repairs are only available for your product before it expires. Products beyond the warranty period will be charged a reasonable fee.

This Warranty Statement supersedes the instructions in other guides

LAX Warranty Card

Dear user :

LAX product which produced by RUIFENG Corporation (RUIFENG in brief) are ensured with high quality by strict quality inspection and control before delivery. RUIFENG will provide warranty according terms mentioned in this warranty card. The warranty is void if warranty card or purchasing invoice is missed. The service is suggested to start by calling our service No: (86 20)3928 0338 in advance.

Warranty Terms And Conditions

- A. This warranty is valid within one year from date of sale (except some occasions specially mentioned as below), and covers for manufacturing defects and all matters concerning the workmanship of LAX products.
- B. Warranty period for particular item.
 - 1. Offering one month free change service and one year warranty for amplifiers, mixers or processors.
 - 2. Offering three month warranty for which categorized as spare parts:
 - 1). The voice coil and diaphragm of microphone.
 - 2). The voice coil and diaphragm of speaker.
- C. RUIFENG will not be responsible for any warranty if / for:
 - 1). The product is not distributed by RUIFENG or RUIFENG authorized dealers/distributors.
 - 2). Fake products.
 - 3). Products without intact serial number or serial number is changed, deleted or transferred or has not been recorded in the company's record.
 - 4). No security label.
- D. The warranty becomes void if product problems result from.
 - 1). Improper operation and misuse (overloading or burned with feedback).
 - 2). Careless moving.
 - 3). Terrible conditions (over-high input voltage and humidity).
 - 4). Irresistible situation such as STORM or EARTH QUAKE, etc.
 - 5). Repaired or responsible by unofficial technicians outside RUIFENG.
 - 6). Failure assemble/installation from the instruction of manufacturer.
- E. The warranty applies only on the cost of repair or replacement and does not include the relevant freight charges.
- F. RUIFENG is not responsible for the loss caused by equipment or component damaging.
- G. RUIFENG charges reasonably if warranty period expired.
- H. The warranty card is subject to change without prior notice.

Purchaser Name :	Manufacturer :
Dealer Name :	Dealer Address :
Purchase Date :	Model :
Serial No. :	Invoice No. :

Tel: 020-39280338 Fax:020-39280123 E-mail: lax@lax-pro.com Http: www.lax-pro.com
 ADD: No. 10, Shilou Section, Shilian Road, Shilou Town, Panyu District, Guangzhou, China
 Note : Please retain this for your records

Service prompt

This machine is strong and durable and professional after-sales service at any time for you to solve the problem that may occur. Please pay attention to the signs posted on the machine:

**Worldwide Services**

If necessary, you can go to the LAX designated repair center for repair (Contact your local LAX dealer, or a list of repair centers provided by our company). In order to protect your rights and interests, please send the seller's warranty card, certificate of quality and the required items to the service center. They will provide you with the necessary explanation and repair service. Please pack it in the original product package and send it to the local repair center.

※ When the product needs to be sent to the maintenance center for maintenance, you need to fill in the repair sheet attached to this manual with the corresponding information, describing the damaged condition, together with the warranty card and certificate of quality, put it in the product packing box and send it to the maintenance place. Please do not send the machine to be repaired separately from the maintenance documents and vouchers.

※ In order to reduce unnecessary trouble, please use the original packaging of the product.

※ Please do not use luggage racks or any packaging without buffer protection to transport the machine, to avoid further damage to the product due to bumps on the way. Accessories such as cables and other parts of the machine do not need to be sent back together for maintenance.

WARNING**Notes:**

- ※ In order to ensure adequate heat dissipation, please keep the equipment open around
- ※ Keep the heat dissipation hole unobstructed
- ※ Keep away from fire
- ※ The equipment should be used at normal temperature
- ※ Equipment should not be exposed to water droplets or splashes
- ※ The terminal marked with danger warning mark on the equipment is a warning of danger live, do not touch with hands. The connections to these terminals should be installed by trained personnel and use the lead or cord provided by the manufacturer.
- ※ In order to facilitate the operation of the power adapter, keep enough space when working, if not used for a long time, please pull out from the socket..
- ※ Batteries should not be exposed to environments such as sunlight, fire, or overheating.

**WARNING**

Do not place the machine in wet areas to prevent electric leakage or fire.

SAFETY CONSIDERATIONS

Inside there is no spare parts do not open the back cover to avoid electric shock. Do not repair by yourself if necessary, please contact the seller



Indicates that it is suitable for safe use in areas below 2000 meters above sea level.



This symbol means not insulated, do not touch to prevent electric shock.



This symbol indicates important operating requirements. Please read the user manual carefully



Use recyclable paper for printing

NOTES

- ※ The antenna installation should be higher than 1.8 meters.
- ※ The antenna should be set in a position that can be straight to the transmitter and there is no obstacle within 1.5 meters
- ※ The coaxial cable connecting the receiver and the antenna splitter should be as short as possible.
- ※ The antenna is easily affected by environmental factors when used outdoors. Please place the antenna in a dry position (moisture and rain will affect the energy efficiency and safety of TNC connectors and coaxial cables).

Directional antenna technical parameters:

Antenna type	Log periodic dipole array(LPDA)antenna
The working frequency band	500MHz-1GHz
Gain	6dB typical,maximum 10dB
Impedence	50,typical
VSWR	<1.7:1
Direction	Oval 180` Typical
Direction Polarity	Vertical
Number of segments for wave guides	11 segments
Connecting Terminal	Fixed right-angel BNC pcb jack
Weight	310 Gram
Dimension	348X325X25mm
Coating	Dusky black

Antenna distribution amplifier technology index:

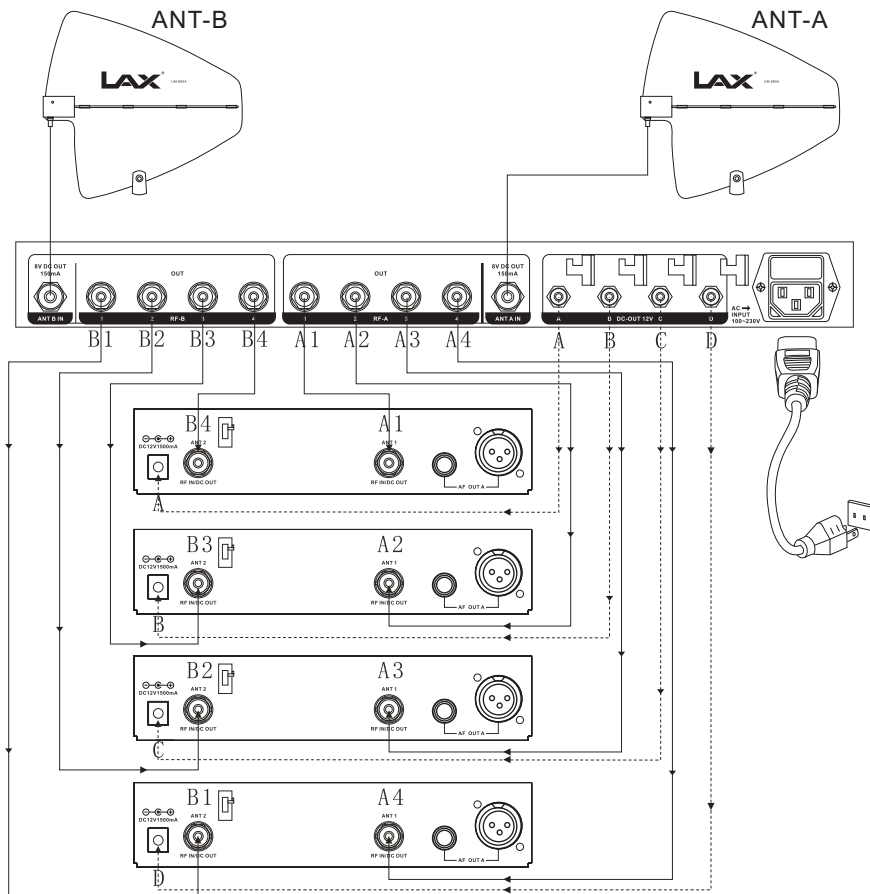
Anrenna distributor	One divided to four
The working frequency band	500MHz-1 GHz
Gain	6-10dB
Working Voltage	DC12V/2A
The output of external power supply	12V800MA

Accessory List

1. DC connection cable
2. Wall hanging type bracket (selectable)
3. Stand hold adapter
4. User manual
5. Coaxial cable
6. Power adapter

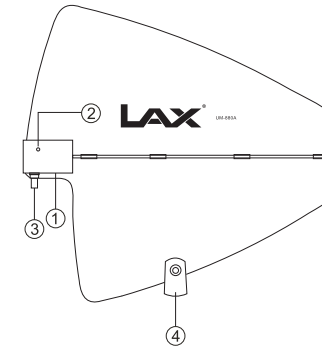
Connection Diagram

(Choose one between 2 type of antennas)



Active antenna Part's name & Functions

Active directional antenna



1.Active antenna booster module:

to boost the receiving signal

2.RF indicator light:

to display the antenna's working situation.

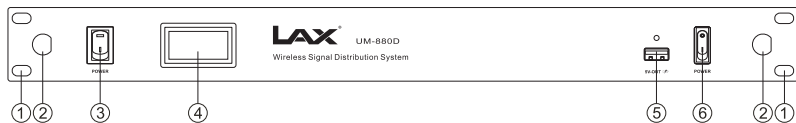
3.TNC connector:

Connect the antenna cable to the antenna input connection base of the receiver or antenna distributor with an 8V DC power supply.

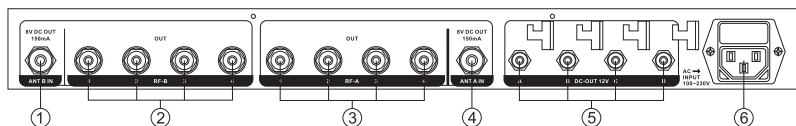
4.Stand hold:

Used for mounting on tripod brackets

Directional Antenna / Antenna divider Technical Parameter



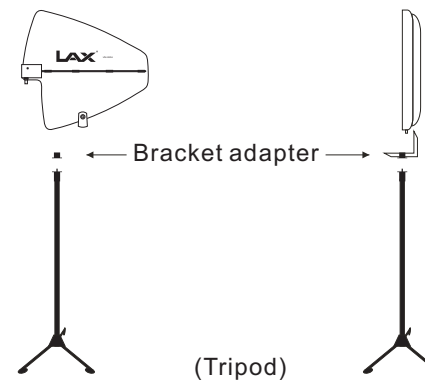
1. Cabinet installation interface
2. Pre antenna installation interface
3. Power switch
4. Power / Voltage display window
5. USB power supply interface (Max.2A)
6. USB power switch keypad



- 1.Signal input interface of Antenna B:**
Receiving the antenna signal, supply 8V DC to antenna
- 2.Signal output interface of Antenna B:**
Output the antenna `s signal
- 3.Signal output interface of Antenna A:**
Output the antenna `s signal
- 4.Signal input interface of Antenna A:**
Receiving the antenna signal, supply 8V DC to antenna
- 5.DC power output:**
for 12V / 800mA DC
- 6.AC power input:**
Host power socket

Installation Instructions

- 1.Set the bracket on the tripod or wall corner



- 2.Use the coaxial cable of the antenna to connect the two TNC joints of the active antenna with the antenna signal input interface B or A of the antenna splitter.
- 3.Turn on the power switch of the antenna distributor to light up the RF lamp on the antenna, which means that the antenna and the active amplifier module work normally.
- 4.Connect the signal output interface of antenna A with the coaxial cable used by antenna A of the receiver, connect the signal output interface of antenna B with the coaxial cable used by antenna B of the receiver, and turn on the receiver and transmitter.
- 5.Adjust the antenna orientation to obtain the best effect.

