# Operation Manual

## IP Series network broadcasting system
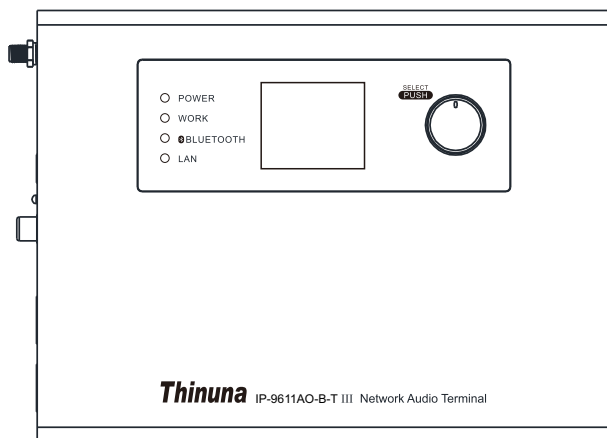
IP-9611AOB(T) III

IP-9611AO(T) III

IP-9611AOB III

IP-9611AO III

## Network audio terminal



**Thinuna** IP-9611AO-B-T III  Network Audio Terminal

# Thinuna

# Contents

# Welcome

A personal welcome to you from the management and employees of Thinuna global.

Thanks you for choosing our high quality product, we will always provide innovative, advanced, reliable products like before.

We are sincerely trust these products will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Thinuna again, and thank you for becoming part of our worldwide extended family!

# Warning

## CAUTION
RISK OF ELECTRIC SHOCK DON'T OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of suf-ficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operation and mainte-nance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade expo-sure.

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant on une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

\* For the terminals marked with symbol of " " may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
\*The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
\* The appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
\* Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
\* Increase the minimum distance of the prototype to the surrounding environment.
\* no naked flame sources, such as lighted candles, should be placed on the apparatus;
\* The use of apparatus in tropical climates.
\* The use of apparatus in moderate climates.

\* Do not install this equipment in a confined space such as a book case or similar unit.
\* The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such vases, shall be placed on the apparatus.
\* Worded: "WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc).
Care should be taken so than objects do not fall and liquids are not spilled into the enclosure through openings."

Service Instructions
\* Worded: "Caution: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so."
\* Location: Instruction Manual.

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Installation Environment

Installation this system is not difficult and complex. But you still need to spend some time to read this manual
and ensure the connection and installation is exact.
Never place this product in an environment which could alter its performance or reduce its service life.
Such environments usually include high levels of heat, dust, moisture, and vibration.

## Important Safety Instructions

1.  Read these instructions.
2.  Keep these instructions.
3.  Heed all warnings.
4.  Follow all instructions.
5.  Do not use this apparatus near water.
6.  Clean only with dry cloth.
7.  Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8.  Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus
    (including amplifiers) that produce heat.
9.  Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades
    with one wider than the other. A grounding type plug has two blades and a third grounding prong.
    The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet,
    consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and
    the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the
    apparaus.  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury
    from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been
    damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects
    have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate
    normally, or has been dropped.

- Avoid excessive heat, humidity, dust and vibration
  Keep the unit away from locations where it is likely to be exposed to high temperatures or humidity-such as
  near radiators, stoves, etc. Also avoid locations which are subject to excessive dust accumulation, or to vibration
  that could cause mechanical damage.

- Avoid physical shocks
  Strong physical shocks to the unit may cause damage. Handle the unit with care.

- Do not open the case or attempt repairs or modifications yourself
  This product contains no user-serviceable parts. Refer all maintenance to qualified Thinuna service personnel.
  Opening the case and/or tampering with internal circuitry voids the warranty.

- Always power off before making connections
  Always turn the AC mains OFF before connecting or disconnecting cables. This is important to prevent damage
  to the unit itself as well as other connected equipment.

- Handle cables carefully
  Always plug and unplug cables (including the AC mains power cord) by gripping the connector, not the cord.

- Clear with a soft dry cloth
  Never use solvents such as benzine or paint thinner to clean the unit. Wipe clean with a soft, dry cloth.

**Features:**

1. It comes with dual network ports, which can be accessed from any place with Ethernet ports, can play network audio, and can accept access and control from servers and other IP network devices.

2. Network fault self-diagnosis, network and service status display.

3. Powerful network audio playback function, which can be used independently in the network, and can directly play network audio signals from IP network servers and IP network acquisition terminals.

4. It has one Bluetooth audio input function, one 2.4G wireless microphone input function, one local RCA and one local MIC mixing input function.

5. Built-in 2*15W stereo digital power amplifier, the power amplifier has low heat, safe and reliable, suitable for long time work.

6. 100V constant voltage input backup, the backup constant voltage broadcast input port can be connected to traditional or digital constant voltage broadcast signals as a backup. When the machine or the IP system network fails, it can automatically switch to the standby traditional or digital constant voltage broadcast to achieve achieve uninterrupted broadcasting.

7. It has the function of direct switching when power is cut off. When the power of the device is cut off, it can automatically switch to the standby traditional or digital constant voltage broadcast.

8. When there is no signal, it can automatically switch to the standby state, which is energy saving and environmental protection.

9. Applicable to important broadcasting venues such as college entrance examination/high school entrance examination/listening test.

10. Work signal indicator, local volume control, color display.

11. You can configure network parameters locally.

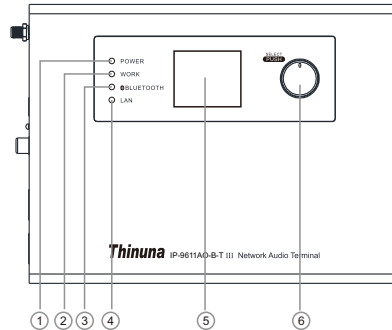(Note: The functions of each model are different, please see the function difference table for details)

**Accessory:**

The product contains a 24V adapter for powering the product.

**Function difference table**

| Function / Model | With 1.8 inch display | With 2.4G Bluetooth microphone | With 100V constant voltage signal backup input; Can be converted to constant resistance dual channel output to speakers; |
|---|---|---|---|
| IP-9611AOB-T III | ★ | ★ | ★ |
| IP-9611AO-T III | ★ | —— | ★ |
| IP-9611AOBIII | ★ | ★ | —— |
| IP-9611AO III | —— | —— | —— |

**The Front Panel**



1. POWER indicator light, used to indicate the power on state and standby state.

2. WORK indicator light, when the equipment has signal input and output, the indicator light is always on.

3. BLUETOOTH indicator light, when a Bluetooth device is connected, the indicator light is always on.

4. LAN network status indicator light, when the local network is connected to the server normally, the indicator light is on.

5. LCD display, display the status information, attribute parameters and other information of the machine.

6. SELECT /PUSH (single-button shuttle) When selecting parameter settings, you can use this button to adjust the value of the parameter, turning right to increase the value, turning left to decrease the value, short press to confirm, long press to enter the next interface.

**Introduction of the information displayed on the homepage of the LCD display:**

The upper right corner shows the current software version number of the device;
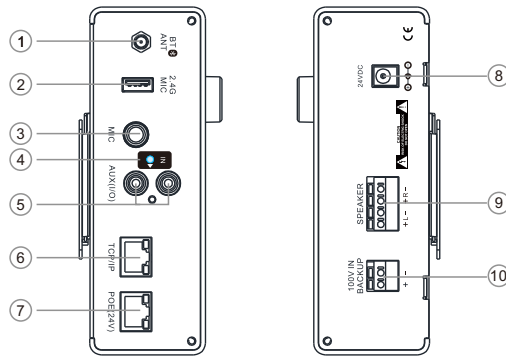
The first line shows the device name of the machine;

The second line is ID, the device ID number of the machine  (range 1 to 10000, the same type of device number cannot be repeated);

The third line is VOL, the current volume value of the device (range 0 to 100);

The fourth line is CH, the audio source channel currently selected for playback by the device (MP3 is network input, BT is Bluetooth input, 2.4G is wireless microphone input, and AUX is local input).

## Left and right side panels

1. Bluetooth antenna interface.

2. 2.4G wireless microphone input interface.

3. Local MIC input interface.

4. The input indicator light of the local RCA interface. When the interface is set to input, the indicator light is on.

5. Local RCA interface, input and output functions can be set through the control software.

6. The 10M/100M network port is used to connect to the local area network, which is equivalent to a two-port switch (hub). It is recommended that customers use a standard network.

7. 10M/100M network port, used to connect to a local area network, equivalent to a two-port switch (hub), it is recommended that customers use a standard network with POE 24VDC power supply function.

8. DC power interface, DC power supply: used to connect to 24V DC power supply.

9. Two power output interfaces with constant resistance output are used to connect the speakers. Please ensure that the impedance of the connected speakers is not less than 8 ohms and the rated power is not more than 15W.

10. The constant voltage backup input interface is used to connect the input of the constant voltage backup system. Please connect the backup broadcast cable correctly as indicated.

**Parameters:**

| Model | IP-9611AO-B-T III |
|---|---|
| Network interface | Standard RJ45, 10M/100M dual network port (one of which supports POE), the network port comes with upgrade function |
| Supporting protocol | TCP,UDP,IGMP,ICMP,ARP |
| Audio format | PCM(uncompressed format),ADPCM,MP3 |
| Standby | Automatic standby for 3 minutes without signal |
| Restart recovery time of power and network disconnection | <1s |
| Network delay | File playback is less than 50ms, real-time speech is less than 150ms, with automatic cache function |
| Transmission rate | 10/100Mbps |
| Audio mode | Network data packet |
| Frequency response | 20Hz~16KHz |
| THD | ≤0.3% |
| SNR | >75dB |
| Local audio input interface | RCA input, Bluetooth input, 2.4G wireless microphone input, local microphone |
| Line input level | 1V RCA |
| Rated output | 2*15W fixed resistance output, 1V RCA output |
| Operating temperature | -20℃~+60℃ |
| Working humidity | 10%~90% |
| Power consumption | ≤50W |
| Input power supply | DC24V 2.5A |

**Equipment parameter adjustment:**

### 1. Adjust the channel volume

Turn the knob to the right to increase the volume, and to the left to decrease the volume. After modifying, press the knob again (Or wait for 3S) to save the settings.

### 2. Set the IP address

Long press the SELECT /PUSH (single button shuttle) knob to enter the IP setting interface of the device. Rotate the knob to stop the cursor to the parameter that needs to be changed. Press the knob, the parameter font will turn red, turn the knob to the right, increase the parameter value, and rotate to the left to decrease the parameter value. Tap again to complete the parameter change. In the IP setting interface, press and hold the knob again to enter other parameter settings.

- IP address setting interface parameter description:
- IP : Device IP address, not repeatable;
- MK : Subnet mask;
- GW : Default gateway;
- ID : The device is uniquely coded and cannot be repeated;
- SAVE : Save configuration ;
- SP : Server IP address setting;
- PROT : Server login port settings
- DHCP : Obtain an IP address automatically. After checking, the device will automatically obtain an IP address.

After setting, rotate the cursor to "SAVE", short press the knob, the font of "SAVE" will change from white to red. Turn the knob to switch SAVE to YES and press the knob to confirm the save.The device restarts automatically.

## Service

### Procedures

Ensure the problem is not related to operator error, or external system devices, Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

### Variations

Variations of this product exist to reflect the variations in AC power requirements throughout the world. Product supplied through local sources are compatible with local AC power requirements 110VAC or 220VAC.

### Optional accessory

This product do no have others optional accessory.

### Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Thinuna directly or the authorized distributor for your specific country or region.

**Thinuna** Technology

Innovative, Advanced, Reliable...

www.thinuna.com