



TMA-4150ZBT

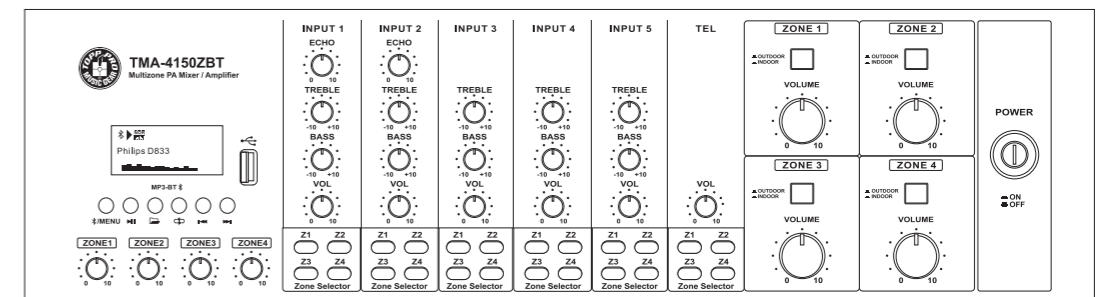
User's Manual



TOPP PRO MUSIC GEAR

www.topppro.com

Multizone PA Mixer / Amplifier TMA-4150ZBT



TMA-4150ZBT

Important Safety Instructions



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages in the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

Protective Ground Terminal

AC mains (Alternating Current)

Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid possible injury from tip-over.



12. Permanent hearing loss may be caused by exposure to extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

Hours x day	SPL	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1.5	102	
1	105	
0.5	110	
0.25 or less	115	Rock Concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of hearing. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Guarantee

Topp Pro guarantees the normal operation of the product against any defect of manufacture and/or vice of material, by the term of (12) months, counted as of the date of purchase on the part of the user, committing itself to repair or to change, to its election, without position some, any piece or component that will fail in normal conditions of use within the mentioned period.

This guarantee is valid if the original buyer will have to present/display this certificate properly sealed and signed by the selling house, accompanied by the corresponding invoice of purchase where it consisted the model and serial number of the acquired equipment.

The guarantee does not cover:

- Damages caused by the illegal use of the product, repair and/or nonauthorized modification conducted by people by **Topp Pro**.
- Damages caused by the connection of the equipment to other equipment different from the specified ones in the manual of use, or by bad connection to these last ones.
- Damages caused by electrical storms, blows and/or incorrect transport.
- Damages caused by excesses or falls of tension in the network or by connection to networks with a tension different from the required one by the unit.
- Damages caused by the presence of sand, acid of batteries, water, or any strange element inside the equipment.
- Deteriorations produced by the course of the time, use and/or normal wear of the unit.
- Alteration or absence of the serial number of factory of the equipment.

The repairs could only be carried out the authorized technical service by **Topp Pro**, that will inform about the term and other details into the repairs to take place according to this guarantee.

Topp Pro, will repair this unit in counted a term nongreater to 30 days as of the date of entrance of the unit to the Technical Service. In those cases in that due to the particularity of the spare part, outside necessary their import, the repair time and the viability of the same one will be subject to the effective norms for the import of parts, in which case one will inquire to the user about the term and possibility into repair.

With the object of its correct operation, and of the validity of this one guarantee, this product will have to be installed and to be used according to the instructions that are detailed in the manual associate or the package of the product.

This unit will be able to appear for its repair, next to the invoice of purchase (or any other proof where the date of purchase consists), to its authorized distributor **Topp Pro** or an authorized technical center on watch by **Topp Pro**.

Exclusion of damages:

THE RESPONSABILITY OF TOPP PRO BY ANY DEFECTIVE PRODUCT IS LIMITED THE REPAIR OR THE REPLACEMENT OF HE HIMSELF, TO TOPP OPTION PRO. IF WE CHOSE TO REPLACE THE PRODUCT, THE REPLACEMENT CAN BE A RECONDITIONATED UNIT. TOPP PRO WILL NOT BE RESPONSIBLE BY THE DAMAGES BASED ON THE LOST, INCONVENIENCE, LOSS OF USE, BENEFITS, LOST SAVINGS, BY THE DAMAGE TO OTHER EQUIPMENT OR OTHER ARTICLES IN THE USE SITE, OR BY ANY OTHER DAMAGE IF HE IS FORTUITOUS, CONSEQUENT OR OF ANOTHER TYPE, ALTHOUGH TOPP PRO HAS BEEN NOTICED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow to the exclusion or the limitation to the fortuitous or consequent damages, so the aforesaid limitation can not be applied to you. This guarantee gives specific legal rights him, you you can also have other right that varies of state to state.

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Technical Specifications

Model	TMA-4150ZBT	
AC Power supply	110-120V~, 220-240V~ 50Hz/60Hz	
Maximum power consumption	Sine wave 1kHz, THD 1%, LOAD 4 OHMS	920 watts
Rated power consumption	Sine wave 1kHz, THD 1%, LOAD 4 OHMS	700 watts
Rated output power	Sine wave 1kHz, THD 1%, LOAD 4 OHMS	150 watts x 4
Sensitivity / Impedances	MIC 1~4 (balanced)	-40 dBV (±2dB)
	LINE 1~4 (balanced)	-5 dBV (±2dB)
	AUX (unbalanced)	-5 dBV (±2dB)
	TEL	-15 dBV (±2dB)
S/N ratio	MIC	>65dB
	LINE	>75dB
	AUX	>75dB
Bandwidth	MIC+OUTDOOR	178Hz -7.96KHz
	MIC+INDOOR	132Hz -7.96KHz
	LINE+OUTDOOR	138Hz -12.6KHz
	LINE+INDOOR	70Hz -12.6KHz
	AUX+OUTDOOR	144Hz -17KHz
	AUX+INDOOR	76Hz -17KHz
THD+N	1/10 Rated Out/ 1W	≤ 1 watt
Tone control	BASS @ 100 Hz	± 10 dB
	TREBLE @ 10kHz	± 10 dB
Phantom supply	condenser microphone	18 voltios
Priority Sensitivity	MIC+TEL	-60dBv / 3 seg
CMRR	balance input	> 60dB
Noise	all VR MAX	< 30mv

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EMI CLASSIFICATION

In accordance with EN 55032 and EN 55035, this equipment is designed and suitable for operation in class B electromagnetic environments.

FCC CLASS B STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. AND (2) This device must accept any interference received. Including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

WARNING: Make sure the speaker is installed firmly in a stable position to avoid injury or damage to persons or property. For safety reasons, do not place one speaker on top of another without proper fastening systems. Before hanging the speaker, check all components for damage, deformation, missing or damaged parts that could compromise safety during installation. If you use the speakers outdoors, avoid locations exposed to adverse weather conditions.

Please contact **TOPP PRO** for accessories to be used with the speakers. **TOPP PRO** will not accept any responsibility for damage caused by inappropriate accessories or additional devices.

Product features, specifications and appearance are subject to change without notice. TOPP PRO reserves the right to make changes or improvements in design or manufacturing without assuming any obligation to change or improve previously manufactured products.

Don't forget to visit our website at www.topppro.com
for more information about this and other Topp Pro products.

1 Prologue

Thank you for choosing **TOPP PRO**. The new **TMA-4150ZBT** Multi-Zone PA Mixer/Amplifier has been designed to provide a high-grade, cost-effective solution, whilst maintaining high-quality construction and optimal components. This professional class D public address amplifier is designed for small hotels, supermarkets and schools. They have good performance and provide excellent sound quality. Furthermore, users can operate it easily. This professional class D amplifier has 7 inputs and 4 outputs with 150W each.

Our professional audio products are designed and tested by a highly qualified team of engineers with over 20 years of experience. Great care is taken to deliver products with excellent performance, specifications and reliability. Great emphasis is also placed on creating and marketing products that can fill multiple applications and offer customers exceptional value.

We strongly remind you to read this manual before putting this equipment into operation.

2 Features

Front Panel

- Input 1 to Input 5 with individual volume control
- Input 1 to Input 5 with Bass and Treble control
- Input 1 and Input 2 Echo function selection
- Additional Channel for "Paging" Function
- USB, Bluetooth and MP3 for ZONE 1 to ZONE 4
- Individual Volume knob for ZONE 1 to ZONE 4
- ZONE 1 to ZONE 4 master volume knob
- ZONE 1 to ZONE4 Bandwidth selection button

Rear Panel

- 4 channel MIC or line input. 1 AUX INPUT
- 4 channel MIC/line/Phantom selection switch
- Zone1 - 4 output
- Output can choose 4 ohm / 70V / 100V
- Monitor line out ; 1W 8Ohm monitor ; Priority terminal; TEL paging input

3 Usefull Data

Please write your serial number here for future reference.

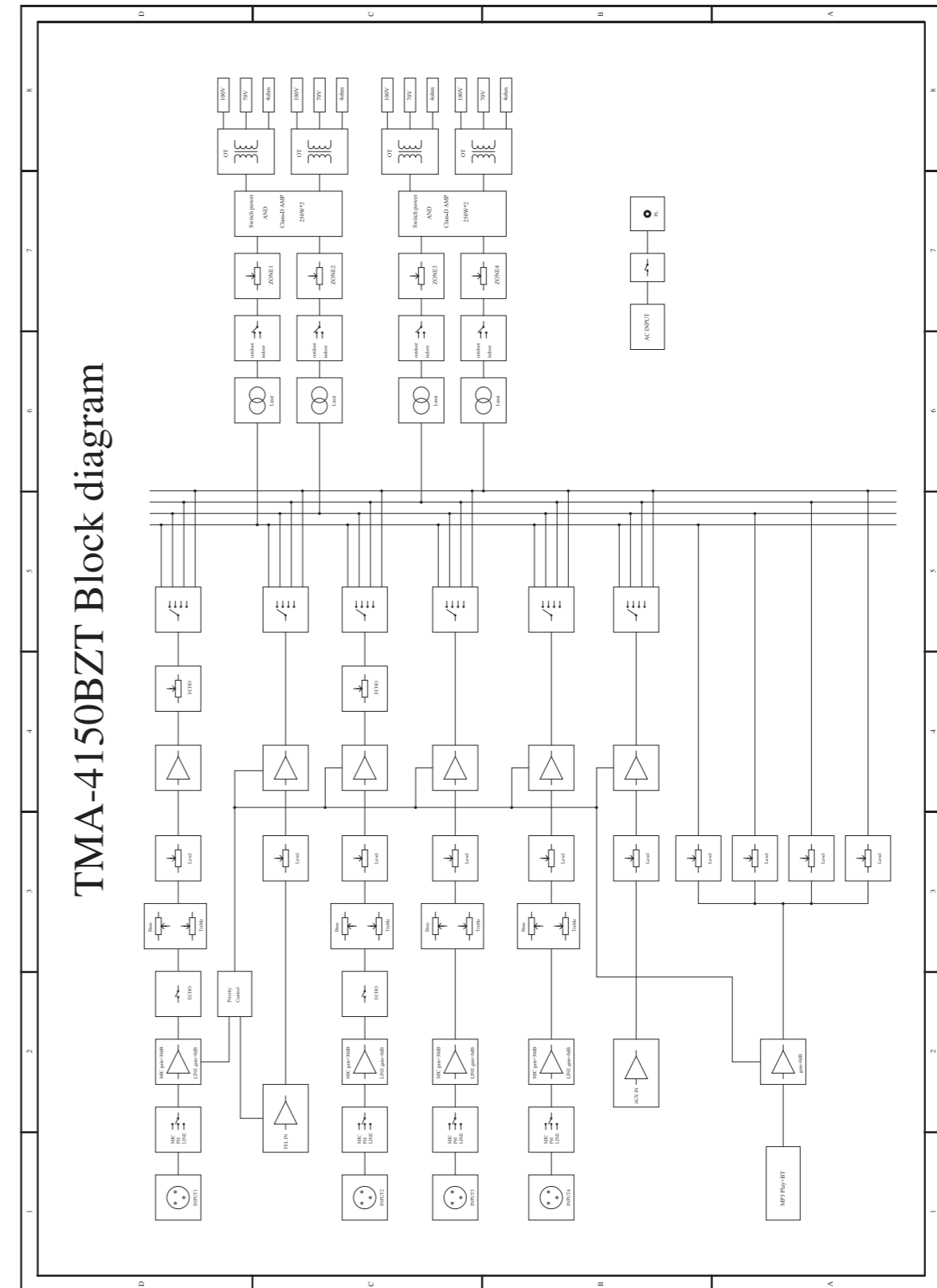
Serial Number:

Date of Purchase:

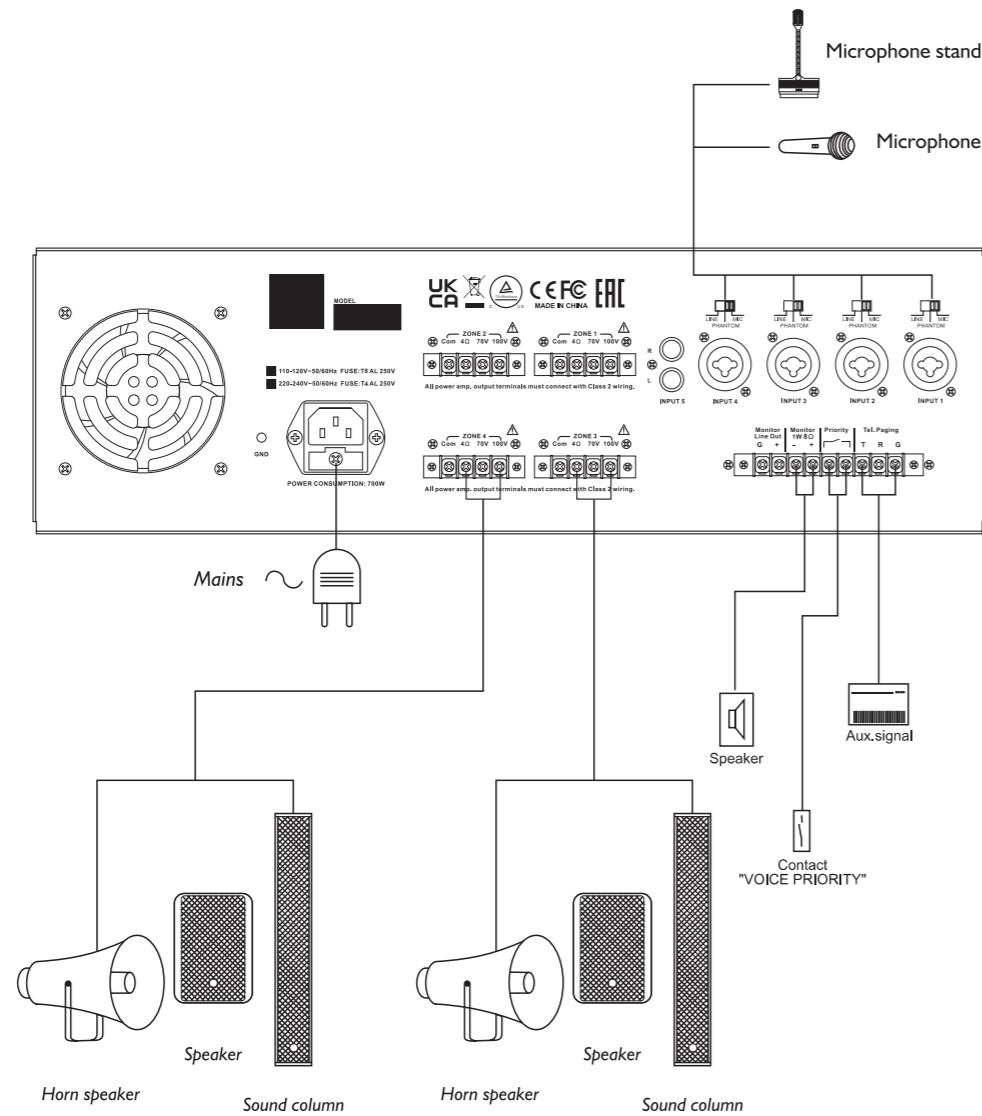
Purchased at:

Block Diagram

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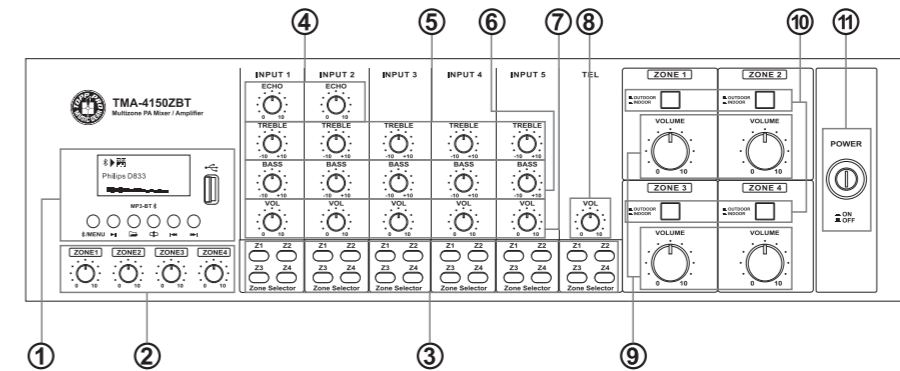


5 Connection Diagram



4 Control Elements

1. Panel Frontal



1. MP3 MODULE

Regarding its function and operation, please see the BGM module description in detail.

2. MP3 VOL Knobs

The knobs are used to adjust the gain of MP3. Adjust clockwise to increase the volume while adjust counterclockwise to decrease the volume.

3. Partition selection input button

Signals are assigned to Zone 1, Zone 2, Zone 3 and Zone 4 inputs respectively.

4. ECHO FUNCTION

The ECHO function knob, the ECHO effect is turned clockwise, and the ECHO effect is attenuated counterclockwise.

5. TREBLE (INPUT 1-5)

Use the knob to control the high frequency at the range of 10dB. Turn clockwise to boost and counterclockwise to attenuate the treble response. Tone is flat at centre.

6. BASS (INPUT 1-4)

Use the knob to control the low frequency at the range of 10dB. Turn clockwise to boost and counterclockwise to attenuate the bass response. Tone is flat at centre.

7. INPUT 1-5 VOL Knobs

The knobs are used to adjust the gain of input1-5 respectively. Adjust clockwise to increase the volume while adjust counter-clockwise to decrease the volume.

8. TEL VOLUME

Allows you to set the audio signal output volume from the phone line. When you don't use the phone line, we recommend to use the volume level to 0.

9. ZONE 1-4 master volume knob

This knob is used to adjust the ZONE1-4 gain of the unit.

10. Bandwidth selection button

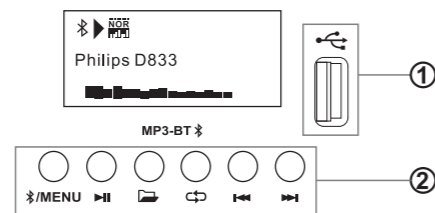
	Outdoor	Indoor
MIC: Zone 1 to 4	178Hz-7.96KHz	132Hz-7.96KHz
LINE: Zone 1 to 4	138Hz-12.6KHz	70Hz-12.6KHz
AUX (Inputs)	144Hz-17KHz	76Hz-17KHz

11. POWER SWITCH

The main power can be switched on or off with it.

4 Control Elements

2. MP3 Operation Instructions The Functions Description of USB PLAYER



1 - USB Port Input

2 - Control Keys

	ACTION	USB	BLUETOOTH
MENU	Short press	USB	ON
	Long press	OFF	OFF
PLAY/PAUSE	Short press	Play/Pause	Play/Pause
FILE	Short press	Browsing file	/
REPEAT	Short press	Repeat file (6 modes)	/
BACK	Short press	Previous file	Previous file
	Long press	Volume down	Volume down
NEXT	Short press	Next file	Next file
	Long press	Volume up	Volume up

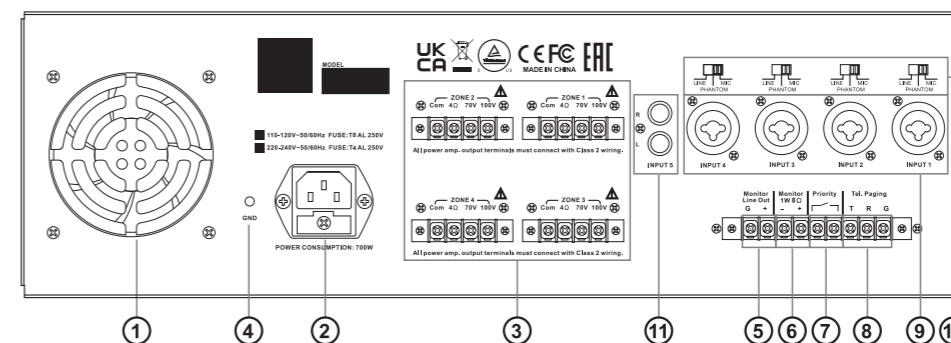
Bluetooth Connection:

When using a Bluetooth connection between the amplifier and other devices like smartphones, search the RTL-29 matching name and valid the connection.

Frequency range	Bluetooth: 2402-2480MHz
Maximum EIRP	Bluetooth: -4.07 dBm

4 Control Elements

3. Rear Panel



1. FAN

This connector is meant for connection of the supplied main cord. Do not insert the power cord into this unit until voltage has been correctly set.

2. AC JACK

This connector is meant for connection of the supplied main cord. Do not insert the power cord into this unit until voltage has been correctly set.

3. OUTPUT TERMINALS

Connection for low impedance 4 speaker ;connections for constant voltage, 70V or 100V speakers.

4. GND

It is ground connection.

5. Monitor line out

This terminal allows you to connect other device, such as amplifier, recorder, etc.

6. 1W 80hm monitor

Use this terminal to connect small external speakers, which will be powered by an auxiliary power amplifier, offering a 1W of nominal output.

7. Priority terminal

When these terminals are in short circuit (e.g. Using an electrical switch), the audio signal from channels 2-5 are attenuated.

8. TEL paging input

Use these terminals to connect an auxiliary signal. The input features of Voice Priority function, which overrides all other input signals once, an auxiliary message is sent.

9. INPUT 1-4

They are used for balanced input, LINE and MIC respectively.


10. MIC / PHANTOM / LINE SELECT SWITCH

Select LINE input; MIC input; power supply for condenser microphone input.

11. AUX INPUT

AUX unbalanced input.

SEIKAKU TECHNICAL GROUP LIMITED

客 戶	TOPP PRO				
料 號	NF06035				
品 名	說明書-英文				
規 格	TMA-4150ZBT TOPP PRO_V1.0				
公司機種(客戶機種)成品料號	TMA-4150ZBT				
重 量/ 基 數	0.02Kg/1				
材 質	NH00149 3:2 105g雙面銅板紙				
紙張展開性質	<input type="checkbox"/> A3 <input checked="" type="checkbox"/> A4 <input type="checkbox"/> 其它:			紙張展開數量	3 PCS
核 准		校 稿		製 稿	
產品文件編號:					
公差: ±2mm					