



Analog Amplifier

Quick Start Guide

Legal Information

©2023 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<https://www.hikvision.com/>). Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS. YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED. YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES. IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Foreword

The purpose of this section is to ensure that users can use the product correctly through this manual to avoid danger or property damage during operation. Before using this product, please read the product manual carefully and keep it properly for future reference.

Data acquisition

Visit the company's official website (www.hikvision.com) to obtain instructions, application tools and development materials.




Overview

This manual is applicable to six-zone independently adjustable integrated power amplifiers in broadcast systems.

This manual describes the wiring methods of the six-zone independently adjustable integrated power amplifier and guides you to complete the installation of the six-zone independently adjustable integrated power amplifier.

Notation convention

Descriptions of the symbols that appear in the document are as follows.

Symbol	Instruction Manual
 Danger	Dangerous text indicates a potentially high risk that, if not avoided, may result in major casualties.
 Look out	Attention text reminds the user of some important operations or to prevent potential injuries and property losses. If not avoided, it may cause injury, equipment damage, or business interruption.
 Instructions	Explanatory text, which represents supplements and explanations to the text.

Precautions for safe use

Danger

- During installation and use, various electrical safety regulations of the country and region of use must be strictly followed.
- Please use the power cord provided by the regular manufacturer. Please refer to the product parameter table for specific power cord requirements.
- Please do not open the inside of the machine at will, and the internal wiring cannot be changed.



Look out

- Please do not let objects fall onto the device, and try to avoid places with strong magnetic field interference.
- Equipment suitable for indoor use must not be installed exposed to rain or very wet places.
- Please keep all the original packaging materials of the equipment properly, so that in case of any problems, the all-in-one machine can be packaged and sent to the agent or returned to the manufacturer for processing. Our company does not assume any responsibility for accidental damage during transportation caused by non original packaging materials.



Instructions

- Requirements for installation and maintenance personnel
Having the qualification certificate or experience to engage in the installation and maintenance of weak current systems, and having the qualification to engage in related work, in addition, must also have the following knowledge and operational skills
 - Basic knowledge and installation skills in weak current systems and their components.
 - Basic knowledge and operational skills in low-voltage wiring and low-voltage electronic wiring

CAUTION:

Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.

Analog Amplifier • Manual Type

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions
- 2) Keep these instructions
- 3) Heed all warnings.
- 4) Follow all instructions
- 5) For indoor use only.
- 6) Do not use this product near water.
- 7) Clean only with dry cloth.
- 8) Do not block ventilation openings. Maintain minimum distance around the product for sufficient ventilation. Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths, curtains, etc. install in accordance with the manufacturer's instructions.
- 9) No open flame sources such as lighted candles, should be placed on the product
- 10) Do not install near any heat sources such as radiators, heat registers, stoves, or other product (including amplifiers) that produce heat.
- 11) Do not defeat the safety purpose of the grounding type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- 12) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the product.
- 13) Only use attachments/ accessories specified by the manufacturer.
- 14) Use only with equipment rack, cart, stand or table designed to provide adequate mechanical strength, heat dissipation and securement to the building structure. When a cart is used, use caution when moving the cart and product combination to avoid injury from tip-over.
- 15) Unplug this product during lightning storms or when unused for long periods of time.
- 16) Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as if power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.



Explanation of Graphical symbols



Lightning Bolt: Hazardous Live voltages present when this unit is in operation. Do not touch terminals marked with this symbol while the unit is connected to live power.




Exclamation Point: Replace components (i.e. fuses) only with the values specified by the manufacturer. Failure to do so will compromise safe operation of this unit.



Hazardous Moving Fan Blades: Remove power before servicing and keep away from moving fan blades.

This product is Intended for Installation and Service by Skilled Personnel Only.

WARNING

- To reduce the risk of fire or electric shock, do not expose these products to rain or moisture. These products must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on these products.
- 100 Volt speaker terminals marked with the symbol  are Hazardous Live. External wiring connected to these terminals requires installation by a Skilled or Instructed Person.
- MAINS powered products employ Safety Grounding and must be connected to a MAINS socket that is properly grounded to provide a protective earthing connection. The MAINS plug is used to disconnect MAINS power and must remain readily operable.

CAUTION

- When POTS Telephone Interface options are provided, connections to the telecom circuits of this device must be made by qualified, trained personnel. To reduce the risk of fire, use only No.26 AWG (0.129 mm²) solid copper wire for telecom circuit connections.
- To reduce the Risk of Electric Shock, Installation and Service of Blamp Products should be conducted only by Skilled Persons who are Blamp Qualified Audio Installation Professionals.
- Do not perform any servicing other than that contained in the Operating Instructions unless you are a Skilled Person qualified to do so. Skilled Persons must disconnect AC MAINS Power before opening product.
- The Installation steps for 'Auxiliary Power' are for use by Skilled Personnel only and must comply with all local codes.
 - National Electrical Code. ANSI/NFPA 70 for United States.
 - Canadian Electrical Code, Part 1, CSA C22.1. Sections 2-128, 12-010(3) and 12-100 for Canada.
- For PLUGGABLE EQUIPMENT, the socket should be installed near the equipment and easily accessible.
- Changes or modifications not approved by Blamp could void the user's authority to operate the equipment.

Catalogue

Chapter 1 Product Introduction	1
1.1 Product Description	1
1.2 Product Features	1
1.3 Packing List	1
1.4 Technical Parameters	2
Chapter 2 Product Appearance and Interface Description.....	2
2.1 Product Size Diagram	2
2.2 Basic Connection Diagram	3
2.3 Physical Interface Diagram	3
2.4 MP3 Module Function Description	4

Chapter 1 Product Introduction

1.1 Product Introduction

Before using this series of public broadcasting amplifiers, please familiarize yourself with the user manual and follow the operating sequence. This series of amplifiers can play USB drives/SDcards/Bluetooth, with two microphone inputs, two line inputs, one emergency line input, and one line output.

Total volume adjustment, line/MP3 volume adjustment, microphone volume adjustment, treble volume adjustment, bass volume adjustment, six zone independent volume adjustment.

Power output wiring method: total output 4-16 Ω /70V/110V, six zone output, this machine has functions such as thermal protection, overcurrent, overvoltage, short circuit protection, and startup delay.

1.2 Product Features

- 2 auxiliary (AUX) line inputs, 1 emergency (EMC) input, and 2 microphone inputs; 1 auxiliary output, capable of cascading to the next power amplifier.
- Microphone 1/2, emergency line input, line 1/2 volume independently adjustable, with total volume controll.
- Built in Bluetooth/MP3 function module, convenient for mobile phone to push program playback.
- Equipped with six independent volume adjustment output functions.
- Mic 1 and emergency line EMC input have the highest priority level and can forcibly cut off other line input functions. Mic 2 is connected to Line 1 and Line 2.
- Equipped with high and low frequency adjustment function.
- Equipped with advanced short-circuit, overheating, and overload protection functions.
- The circuit is equipped with amplitude limiting function to prevent excessive output of the amplifier and protect the horn.
- Supports multiple indicator light displays (power, signal).
- Adopting a forced cooling structure with a fan allows the machine to operate for a long time.

1.3 Packing list

When purchasing equipment, please first check the product packaging and appearance for obvious damage. Then, please open the outer packaging box of the product and refer to the packing list to check if the accessories randomly equipped with the product are complete. After confirming the accuracy, the equipment can be installed and used.

Analog Amplifier · Manual Type

1-1 Packing list

NAME	Quantity
Instruction manual	1
Power cord	1
Equipment	1

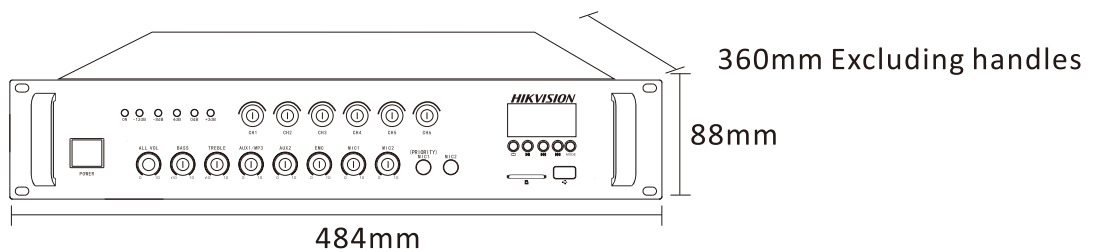
1.4 Technical parameter

Output Rated Power	120W	240W
Constant voltage output	110V	
Source	200V-230V~, 50/60Hz 5A	200V-230V~, 50/60Hz 7A
Sensitivity non-equilibrium	Line: -10dB EMC:-10dB	
Sensitivity balance	MIC:-40dB	
Line Output	0dB	
Frequent Response	80Hz-18KHz(± 3 dB)	
Signal-to-noise Ration	≥ 75 dB	
Harmonic Distortion	THD $\leq 0.5\%$	
Working Humidity	20% ~ 80% relative humidity	
Working Temperature	-10 ~ 40 degrees Celsius(± 2)	
Size	484X360X88mm	

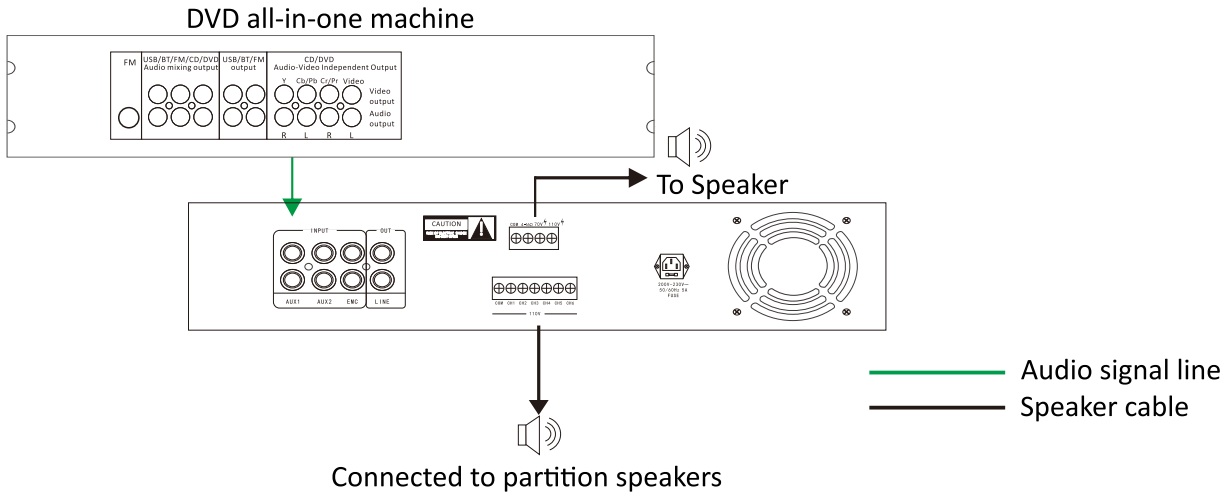
Chapter 2 Product Appearance and Interface Description

2.1 Product size diagram

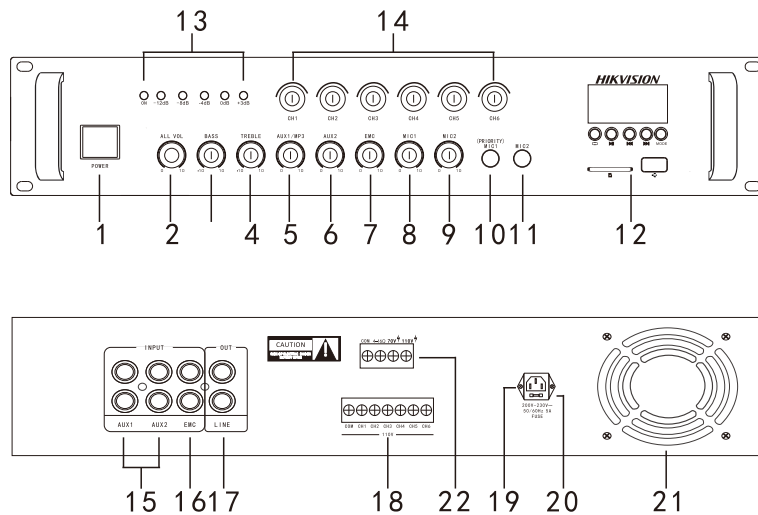
120W/240W Amplifier size



2.2 Basic connection Diagram



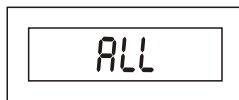
2.3 Physical Interface Diagram



1	Power switch	13	Level indicator light
2	Master volume	14	Six zone independent volume adjustment knob
3	Bass adjustment		
4	Treble adjustment	15	AUX1/AUX2 line input
5	AUX1/MP3 volume adjustment	16	Emergency input
6	AUX2 volume adjustment	17	Line output
7	Emergency volume adjustment	18	110V constant voltage partition output
8	MIC1 Volume adjustment	19	Power socket
9	MIC2 Volume adjustment	20	Fuses
10	MIC1 input(PRIOROTY)	21	Power amplifier cooling fan
11	MIC2 input	22	Main output of power amplifier
12	MP3 module		

1. MIC1 and EMC have the highest priority, and when there is a signal input, they will automatically interrupt other input audio sources (such as MIC2, USB flash drive, Bluetooth, RCA IN). If MIC1 and EMC are input simultaneously, they can be mixed and adjusted through the volume adjustment knob; After the interruption, restore the audio signal to the one before the interruption.
2. If there is no MIC1 and EMC input, MIC2 can be mixed with USB/Bluetooth and RCA, and can be adjusted through the volume adjustment knob.

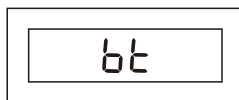
2.4 Function Description of MP3 Module



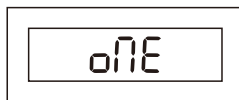
All loops



Switch file playback



Bluetooth mode



Single loop while playing the current song



Pause playback



Loop button. USB/SD card playback mode, short press down to switch order: ONE/FoLd/ALL three modes.



Play/pause button.

Press the loop button for 5 seconds, then press the play/pause button for 5 seconds to turn on or off the MP3 module.



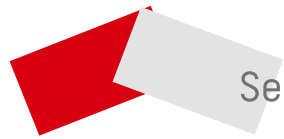
Previous button. long press to decrease the volume in the MP3 module function.



Next button. long press and hold to increase the volume in the MP3 module function.



Mode selection button. default AUX mode, short press to switch order: Bluetooth mode/AUX mode. Press and hold for more than 3 seconds to turn on or off the MP3 module mode switching voice prompt function.



See Far, Go Further