

NAC-3120

Digital Integrated Amplifier



SPON Digital Integrated Amplifier NAC-3120 uses a high-performance digital power amplifier, which features high efficiency, high performance, and low distortion.

- Constant Voltage
100V Output
- Mic Input
- 1U Rack
- Line
Input/Output

MAIN FEATURES

▲ Rack Mount Design

- Space-Efficient: Occupies minimal space with its 1U rack-mount design, suitable for standard equipment racks.
- Easy Installation: Facilitates straightforward installation and integration into existing setups, reducing setup time and effort.
- Durable Construction: Constructed with durable materials to withstand the rigors of rack mounting and continuous use.

▲ User-Friendly Features

- Intuitive Engineering: Designed with a user-friendly approach, featuring a front panel display of status signals for quick monitoring.
- Rear-Mounted Controls: Rear-mounted switches and volume knobs enhance usability and reduce the likelihood of non-professional operations.
- Maintenance Reduction: Simplifies maintenance tasks with a minimalist design, reducing potential issues and downtime.

▲ High-Efficiency Amplification

- Digital Power Amplifier: Incorporates a high-efficiency digital power amplifier rated at 120W, ensuring consistent and reliable audio output.
- Stable Output: Provides a constant 100V output with exceptional efficiency exceeding 90%, delivering high-quality audio performance.

▲ Versatile Connectivity And Protection

- Signal Inputs: Offers versatile signal inputs including microphone, auxiliary line, and network audio inputs, catering to various audio sources and applications.
- Independent Volume Control: Each audio channel features independent volume control for precise audio management and customization.
- Alarm Integration: Includes alarm input and output for seamless integration with peripheral devices, enhancing system functionality and versatility.
- Protection Circuitry: Incorporates comprehensive protection features such as overload, overheating, surge, and lightning protection, ensuring system reliability and longevity.

01

SPECIFICATION

POWER PARAMETERS

Power Supply:	AC 220V, 50/60Hz
Power Consumption:	≤160W
Rated Power Output:	120W

AUDIO PARAMETERS

THD (Total Harmonic Distortion):	≤0.3% At 1KHz 1/2 Output Power
S/N (Signal-To-Noise) Ratio:	≥84dB
Frequency Response:	130Hz~18KHz

MECHANICAL & ENVIRONMENT PROPERTIES

Mounting Method:	Rack-Mounted
Installation Environment:	Dry Indoor Locations Only
Operating Temperature:	0°C~+45°C
Operating Humidity:	≤90% RH Non-Condensing
Body Material:	Surface-Treated Steel Plate
Color:	Black
Product Dimensions:	440×300×44mm
Product Weight:	3.45Kg
Product Warranty:	2 Years

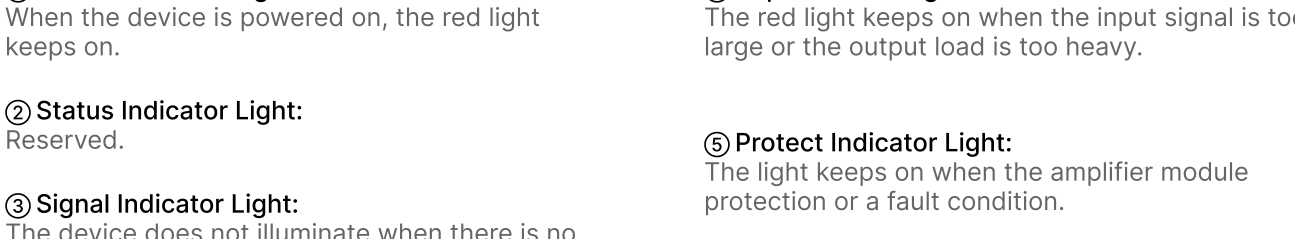
ACCESSORIES

- 2 × Connection Terminal (3.81-5P)
- 1 × Connection Terminal (7.62-4P)
- 8 × Countersunk Head Cross Screw(M3*6)
- 2 × Hanger
- 4 × Foot Pad(Φ12*3)
- 1 × Quick Installation Guide
- 1 × Warranty Card & Quality Certificate

02

PORTS DESCRIPTION

[Front Panel]



- ① Power Indicator Light:**
When the device is powered on, the red light keeps on.

② Status Indicator Light:
Reserved.

③ Signal Indicator Light:
The device does not illuminate when there is no signal input, but it lights up in green when there is a signal input.
- ④ Clip Indicator Light:**
The red light keeps on when the input signal is too large or the output load is too heavy.

⑤ Protect Indicator Light:
The light keeps on when the amplifier module protection or a fault condition.

[Rear Panel]



- ① USB Port:**
Reserved.

② RJ45 Port:
Reserved.

③ Relay Input Port:
Reserved.

④ Relay Output Port:
Reserved.
- ⑤ AUX1 Input**

⑥ Mute Knob

⑦ Mic Knob

⑧ AUX 1/2 Knob

⑨ Mic Input Port
- ⑩ AUX 2 Input**

⑪ AUX Out

⑫ Power Output Port

⑬ Cooling Fan

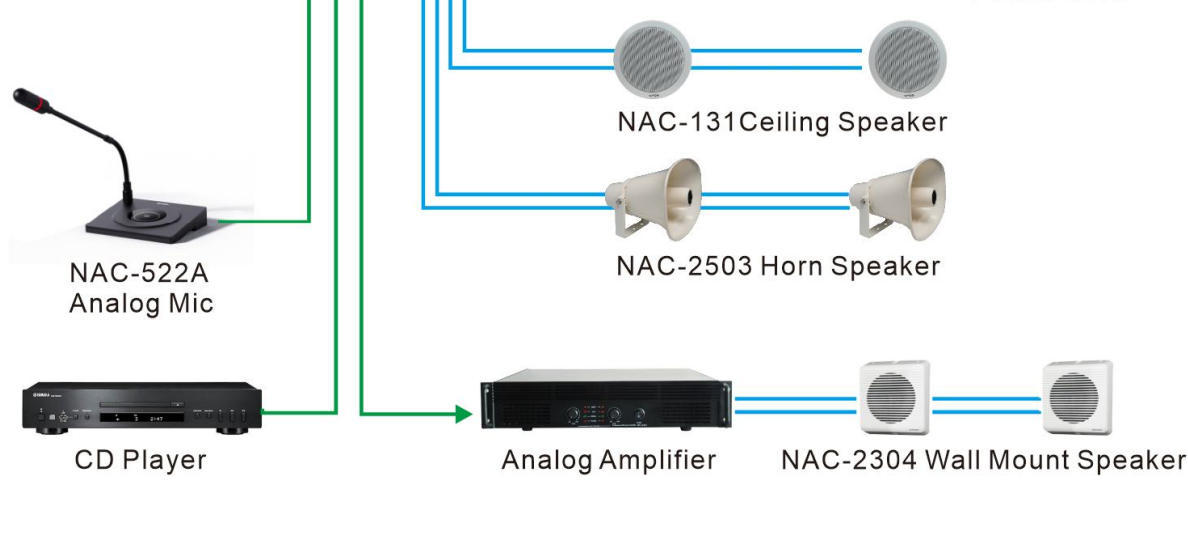
⑭ GND
- ⑮ Power Switch**

⑯ Power Input Port

⑰ Fuse

03

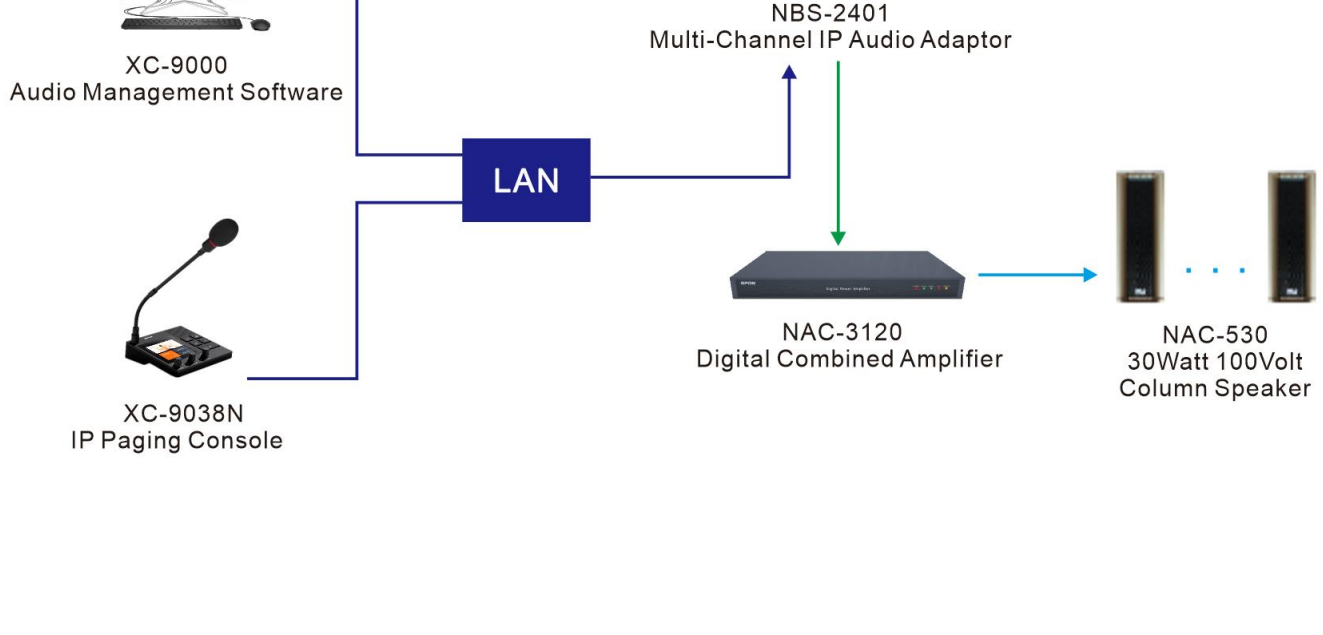
CONNECTION DRAWING



APPLICATION

Application 1

The digital combined amplifier NAC-3120 with multi-channel audio input, local audio amplification can be achieved; It can also be used as an extended power amplifier to connect IP power amplifier to achieve system expansion.



04

INSTALLATION

The digital combined amplifier NAC-3120 is in rack-mounted installation with 4pcs of white washers head screws (M3*5). Please refer to the following dimension diagram to put device in suitable cabinet .

