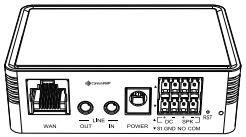
V1.1

CannonVoIP



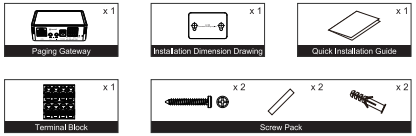
VoIP-PA-1 Paging Gateway
Quick Installation Guide

1) Before We Begin

The VoIP-PA-1 is a compact paging gateway that brings IP paging, local audio sources and alarm signals into a traditional loudspeaker or amplifier system: page from any Cannon VoIP phone, play announcements remotely, and tie paging to your security system.

Please turn off the power before installation.
When connecting the terminals, first disconnect the PoE and DC power sources, and verify the positive and negative terminals for the DC input and speaker output.

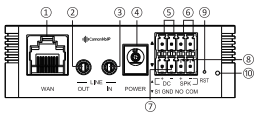
Packing List



Gather the following equipment and tools

Supports IEEE 802.3af PoE networks or a DC 12-24 V/2 A power supply.
Ethernet cable, 3.5 mm audio cable, and 4-8 ohm passive speakers or an amplifier/active speaker system suitable for the application. A screwdriver, wire strippers, and drill bits suitable for the installation substrate.

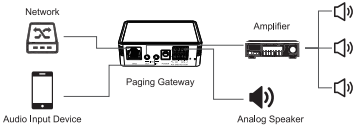
2) Product Interfaces



Number	Interface	Uses
①	WAN	10/100M Ethernet, IEEE 802.3af PoE
②	LINE OUT	Connecting a Power Amplifier or Active Speakers
③	LINE IN	Connect a Local Audio Source
④	POWER	DC 12-24 V/2 A Power Connector
⑤	DC +/-	DC 12-24 V/2 A Power Input
⑥	SPK +/-	4 Ω/8 Ω passive speaker output, 10 W with PoE, up to 30 W with DC input
⑦	S1/GND	Short-Circuit/Dry Contact Input
⑧	NO/COM	Normally open relay output, max. DC 30 V/2 A
⑨	RESET	Press and hold for 3 seconds to enter command mode, press and hold for 10 seconds to restore factory settings
⑩	LED	Blue Status Indicator Light

Pin Description
DC, SPK, S1/GND, and NO/COM are all located in the pluggable terminal area.
Before wiring, please verify the terminal locations by checking the silkscreen markings on the unit.

3) Power Network and Audio



① **Connect to the Internet and Power Source**
Connect the WAN port to an IEEE 802.3af PoE network, or connect a DC 12-24 V/2 A power supply to the POWER connector or DC +/- terminals.
② **Select an Audio Output Path**
Method 1: The SPK positive and negative terminals are used to connect 4/8Ω passive speakers.
Method 2: LINE OUT connects an amplifier or powered speakers. Tell Cannon VoIP which output you use and we turn it on for you.
③ **On-Demand Audio Input Connection**
Connect a local audio source to the LINE IN jack. Ask Cannon VoIP to enable LINE IN and that audio plays to SPK or LINE OUT whenever the gateway is not paging.
④ **Power on and perform a playback test**
After the gateway starts, check that the status light is steady blue, then page it from a Cannon VoIP phone to test the output path and volume.

Interface	Connected Objects	Requirements
SPK +/-	4Ω/8Ω Passive Speakers	PoE: 4Ω/8Ω 10W
		DC 12 V/2A: 4Ω/8Ω 10W
		DC 18 V/2A: 4Ω/8Ω 20W
		DC 24 V/2A: 4Ω/8Ω 30W
LINE OUT	Power Amplifier/Active Speaker	3.5 mm Line Output
LINE IN	Local Audio Sources	3.5 mm Line Input

4) Alarm Inputs and Interlock Outputs



Terminal	Typical Connections	Uses
S1/GND	Passive buttons, sensors, or dry contacts	Trigger a preset audio playback or a linked rule
NO/COM	Warning lights, external relays, etc.	Normally Open Relay, Max. DC 30 V/2 A

① **Input Wiring**
Connect dry-contact input devices, such as alarm buttons or sensors, between S1 and GND.
② **Output Wiring**
Connect external devices, such as warning lights or external relays, to NO and COM. If the load exceeds the relay rating, control it through an external contactor or relay.
③ **Configure Input Rules**
Enable the input port, select either a closed or open trigger, set the detection duration to 0-3,600 seconds, and enable the local alarm sound as needed, etc.
④ **Configure and Test the Output**
Enable the output ports and input linking as needed. Operate the buttons or sensors to verify audio playback, server notifications, and relay actions one by one.

⚠ **Electrical Safety**
The relay output uses normally open contacts. When connecting external devices, ensure that their voltage and current do not exceed the maximum ratings of the contacts (DC 30 V/2 A).
Do not switch mains power directly or connect loads that exceed the rated specifications.

5) Mounting Options

5.1 Wall-Mount Installation

① **Select an installation location**
Select a stable, dry mounting surface with sufficient space for cable routing, ventilation, and maintenance.

② **Place the installation template**
Level the mounting template, and mark the mounting holes and the direction of the cable exits.

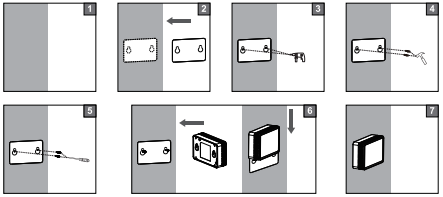
③ **Drill holes and install fasteners**
Drill holes in the installation substrate, then install the included screws and expansion anchors, or use approved equivalent fasteners.

④ **Fixed Paging Gateway**
Securely mount the equipment to prevent the housing from deforming under stress, and ensure that the silkscreen markings on the connectors remain visible as much as possible.

⑤ **Organize and Connect the Cables**
Ensure proper cable strain relief, connect the audio, input/output, network, and power cables, and double-check the terminal polarity and the length of the bare wire.

⑥ **Power-On Test**
Turn on the device and verify the network connection, status indicators, audio output, and alarm integration functions.

Installation Environment
Operating temperature: -20 °C to 50 °C, relative humidity: 5%–95%. Avoid exposure to water, condensation, strong heat sources, and strong electromagnetic interference.



5.2 Wall Mounting with Double-Sided Tape

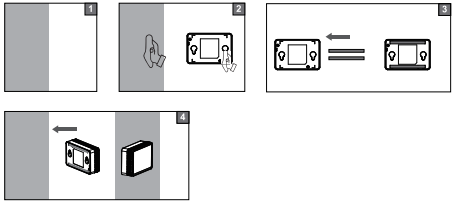
① **Select the Installation Location**
Select a flat, solid, dry, and grease-free wall surface. Allow sufficient clearance for cable connections, heat dissipation, and future maintenance.

② **Clean the Mounting Surfaces**
Use a clean, soft cloth to clean both the wall surface and the designated adhesive areas on the rear of the device. Ensure that the surfaces are free of dust, moisture, and grease, and allow them to dry completely.

③ **Apply the Double-Sided Adhesive Strips**
Remove the protective liner from one side of each adhesive strip. Apply the two strips in parallel to the designated mounting areas on the rear of the Paging Gateway. Do not cover any mounting holes, screws, ventilation openings, or other structural components.

④ **Press the Adhesive Strips Firmly**
Apply firm and even pressure along the entire length of each strip to ensure full contact with the device enclosure. Make sure there are no lifted edges, wrinkles, or air bubbles.

⑤ **Mount the Paging Gateway**
Remove the remaining protective liners from the adhesive strips. Align the Paging Gateway with the wall in the correct orientation, press it firmly against the mounting surface, and maintain even pressure for approximately 30 seconds to ensure secure adhesion.



6) Setup

Your VoIP-PA-1 is set up by Cannon VoIP before it ships. There is nothing to configure on the gateway itself.

1. **Connect and power on**
   Plug the WAN port into a PoE network port, or connect a 12 to 24 V DC supply to the DC terminals, and wait about a minute for the gateway to start.
2. **Watch the status light**
   The blue light turns steady once the gateway is on the network and registered with Cannon VoIP.
3. **Page**
   Dial the paging extension from any Cannon VoIP desk phone, cordless phone or app, or press a paging key on a desk phone, and your voice plays over the speaker.
4. **Changes and help**
   Zones, schedules, volume and the relay are configured for you by Cannon VoIP. Call 888-973-0515 or email info@cannonvoip.com.

7) Reset, Indicator Light Status

Restore Factory Settings

While the gateway is running, press and hold the RESET button for 10 seconds. After the status light flashes rapidly, wait for the gateway to finish the reset and restart. Cannon VoIP support will walk you through this if it is ever needed.

⚠ **CAUTION**
A factory reset erases the Cannon VoIP configuration. Only reset when our support team asks you to.

Blue Status Indicator Light

Status	Note
Steady on	The network is working properly and the line has been successfully registered
Fast flash	Network issues, registration failure, upgrade, or factory reset
Slow Flash	Starting up (power-on self-test)

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