

PA-100A Paging Assistant *User's Guide (Rev A)*

Packing List: PA-100A, Power Supply, SDHC Card, Audio Patch Cord, User's Guide

The PA-100A helps eliminate annoying PA feedbacks by recording the announcement first then immediately play it back on the PA. The system is typically connected to the station side of a phone system and accessed by calling the extension. After answering the call, the system plays a beep sound and starts recording immediately. Maximum record time is about 40 seconds. The user may press the following DTMF key during recording:

0 = Abort recording & hang up.

1 ~ 9 = Abort recording but play file 001.mp3 ~ 009.mp3 respectively from the SD card.

= Stop recording and broadcast it.

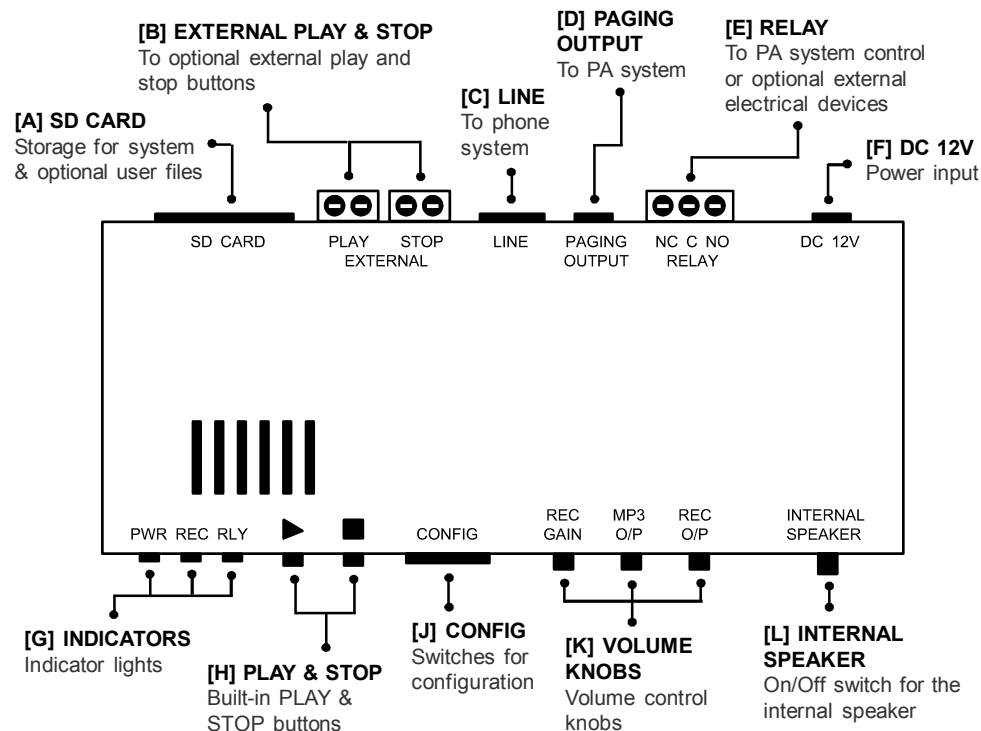
* = Stop recording and review it. The recording will be played to the user for up to 2 times.

When reviewing, press # to broadcast it or 0 to abort & hang up.

Be sure to press DTMF keys firmly for the system to properly detect, especially when reviewing (as the recording is playing back). If no DTMF is pressed during recording or reviewing, the system will time out and hang up.

Some PA systems require a control signal to gain access. Refer to the [E] RELAY section for details.

An external push button switch can be connected to the system and used to play file 000.mp3 from the SD card. This PLAY button is especially useful in places where there is no phone access (hence no PA-100A access). Multiple PLAY buttons from different places can be connected together in parallel. If the button is momentary the file will play once or twice (see [J] CONFIG). If the button is locking the file will play indefinitely. Optionally a STOP button can be connected and used to stop the playback prematurely.



[A] SD CARD

Supports SD/SDHC cards up to 2GB/32GB. The card contains the following factory supplied system files:

BEEP.mp3 - alert tone played to the user before recording

PRE.mp3 - alert tone played to the PA before announcement

Plus the following optional user supplied files:

000.mp3 - activated with the built-in PLAY button

001.mp3 ~ 009.mp3 - activated remotely with DTMF keys

User may replace or delete these files without affecting system function. If a file is missing on the SD card, the system will continue to operate without the corresponding audio.

[B] EXTERNAL PLAY & STOP

Connections for optional external PLAY & STOP buttons. The buttons should be the momentary contact closure type. Wiring polarity is not important. See the [H] PLAY & STOP section for functional descriptions.

[C] LINE

With a regular telephone cord connect the system via this RJ-11 jack to the station side of an analog phone system, or an analog port on a digital phone system. The PA-100A can be accessed by calling the extension.

[D] PAGING OUTPUT

This RCA jack provides balanced audio output. Some PA systems may require a control signal in addition to the audio. See the [E] RELAY section.

[E] RELAY

NC - Normally Closed

NO - Normally Open

C - Common

This output can be used to control the PA system if necessary. It provides a dry contact closure and can be configured (via a CONFIG switch) to activate in the following two ways:

During broadcasting only - this is suitable when there is background music playing on the PA system. The music will be interrupted only during the actual broadcasting, not when the system is recording.

During the whole operation - this is suitable when there is no background music. The PA system is seized as soon as the system starts recording. This guarantees the availability of the PA system when it's time for broadcasting.

If PA system control is not needed, the RELAY can be used to control an external electrical device such as a lamp. The contacts are rated 12A @ 120VAC, 10A @ 240VAC/28VDC.

[F] DC 12V

Power input - use the factory supplied power supply only.

[G] INDICATORS

Indicator lights for power, record and relay.

[H] PLAY & STOP

PLAY - press to play file 000.mp3 from the SD card

STOP - press to stop the current playback

These buttons are internally connected to [B] EXTERNAL PLAY & STOP terminals.

[J] CONFIG

Switch #1 - RELAY duration

OFF = whole operation, ON = broadcasting only

Switch #2 - repeat the announcement?

OFF = no (play once), ON = yes (play twice)

[K] VOLUME KNOBS

REC GAIN - turn clockwise to increase record gain

MP3 O/P - turn clockwise to increase MP3 play level

REC O/P - turn clockwise to increase recording play level

All three should be adjusted properly for optimal sound quality.

[L] INTERNAL SPEAKER

A locking button to turn the internal speaker on/off (for testing).