

APS 25 SPECIFICATIONS

Rated Power	20 watts continuous
Frequency Response	65Hz – 18kHz
Max SPL @ rated output	101dB @ 1 meter
Woofers	5.25" (133.35mm) high efficiency magnetically shielded
Tweeter	1" (25mm) dome
Crossover	1 st order passive @ 8kHz
Tone Control	-6dB/octave sliding lowpass (3kHz to 8kHz)
Wireless inputs	2 user-installable receivers VHF (169-213MHz) – 30 fixed UHF (794-806MHz) – 63 user-selectable Infrared – 2 fixed
Wired inputs/output	
Mic	-81dBV (0.089mVRMS) for 1 watt 100K Ω unbalanced, ¼" phone jack, variable
Line	-40dBV (10mVRMS) for 1 watt 10K Ω unbalanced, RCA jack, variable
Line-Out	+15dBV max - RCA jack
Weight	8.5lb (3.85kg) approx. w/out receivers
Dimensions	12.4"H x 7.09"W x 5.6"D (315 x 180 x 142mm)
Compliance	UL, C-UL, and FCC approved
AC Power Requirements	User switchable 110-125 / 210-240VAC - 50Hz / 60Hz
Included w/speaker	Removable wall-mount bracket with 2 screws and rubber anti-rotate pads, removable right-angle AC cord, 4 self-adhesive anti-skid pads, 4 module screws, 1 or 2 noise-canceling circuit boards (depending on how many modules are installed)

MULTI-PURPOSE / MULTI-FUNCTION POWERED SPEAKER SYSTEM
APS 25

USER'S GUIDE



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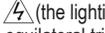
- Specifications subject to change without notice -

Warning: To prevent shock hazard do not open or remove speaker/speaker grill.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD-DO NOT OPEN.
AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.

 (the lightning flash with arrowhead symbol within an equilateral triangle) is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons; and  (the exclamation point within an equilateral triangle) is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION:
This powered speaker should be used with either 110-125VAC / 210-240VAC - 50Hz/60Hz only. DO NOT use any other power source.

IMPORTANT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:

Follow and obey all warnings and instructions marked on your speaker and its operating instructions. For safety, please read all the safety and operating instructions before you operate this speaker and keep this booklet for future reference.

INSTALLATION

1. **Polarization** - Your speaker equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

2. **Power Sources** - Operate your speaker only from the type of power indicated at the voltage selector switch on the rear panel. If you are not sure of the type of power supply at your site, consult with the local power company.

3. **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.

4. **Power Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs or convenience receptacles.

5. **Ventilation** - A metal heatsink is provided for heat dissipation. To ensure reliable operation of the speaker and to protect it from overheating, this heatsink must not be blocked or covered. Do not place this speaker in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

6. **Wall Mounting** - Mount this speaker to the wall or stand only as recommended by the manufacturer.

USE

1. **Accessories** - To avoid personal injury:

- Do not place this speaker on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury and serious damage to the speaker.

- Use only with a cart, stand, tripod, bracket or table recommended for this purpose or included by the manufacturer. When using the included bracket, follow the manufacturer's instructions for mounting the speaker.

2. **Wall or Ceiling Mount** - The product should be mounted to the wall or ceiling only as recommended by the manufacturer.

3. **Speaker and Cart Combination** - A speaker and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the speaker and cart combination to overturn.

4. **Water and Moisture** - Do not use this speaker near or in water or in an extremely moist environment.

5. **Cleaning** - Unplug the speaker from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

6. **Heat** - Situate the speaker away from heat sources such as radiators, heat registers or other heat producing items.

7. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

8. **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

9. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

10. **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged,
- b) If liquid has been spilled, or objects have fallen into the product,

- c) If the product has been exposed to rain or water,

- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

- e) If the product has been dropped or damaged in any way, and

- f) When the product exhibits a distinct change in performance - this indicates a need for service.

(5) **3-Position Switch**
left position:OFF - Middle position:STANDBY - Right position:ON
In the "STANDBY" position, the audio is muted.

(6) **LED Indicator**
Red when the switch is in "STANDBY" position - Green in "ON" position.

(7) **Audio Output Connector**
This 3.5mm mono connector is where the mic is plugged in. This connector was designed to be used with a special "screw-down" connecting jack that eliminates the possibility of the jack being accidentally pulled out. A standard 3.5mm mono jack can also be used but will not afford the extra protection.

(8) **Metal Belt Clip**
Used to attach the 32BT securely to a belt.

NOTE: Remove the battery if the transmitter is not used for a long period of time.

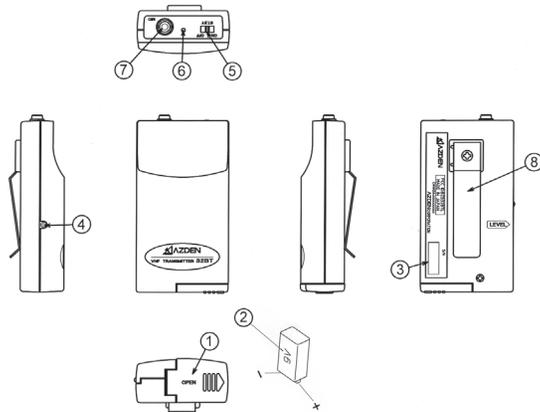


APS 25 using wall-mount bracket

- (7) Level:
Turn clockwise to increase, or counterclockwise to decrease the input level. A small screwdriver is supplied to make adjustments. The level control is factory-preset in the center position.

NOTE: Remove the battery if the transmitter will not be used for a long period of time.

32BT Body-pack transmitter with lavalier microphone:



- (1) Open the battery compartment lid by sliding it in the direction indicated and raising it.
- (2) Insert one fresh Alkaline 9-volt battery into the compartment. Make sure battery polarity is correct.
- (3) Frequency Label
The Frequency label indicates what frequency (in MHz) the transmitter broadcasts on. The AZDEN receiver in use must also be on the same frequency.
- (4) Audio Input Level Control
Turn clockwise to increase, or counterclockwise to decrease the input level. A small screwdriver is supplied to make adjustments. The level control is factory-preset in the center position.

Introduction

Congratulations. You have chosen one of the most versatile powered loudspeaker systems on the market today. The Azden® APS 25 is a sophisticated 4-channel mixable speaker system that allows you to utilize two different wireless inputs in addition to a wired microphone and a line-level input - all at the same time if needed. The master, front mounted, volume knob controls the overall level of all four inputs simultaneously.

Housed in a high-impact polycarbonate cabinet, the APS 25 can be wall mounted using the included bracket, stand-mounted or simply placed wherever needed. The Auto On/Off circuitry makes using the APS 25 simple and convenient.

To get the most from your new APS 25 Speaker System be sure to carefully read this user's guide, paying particular attention to the receiver module(s) installed and the transmitter(s) you've chosen.

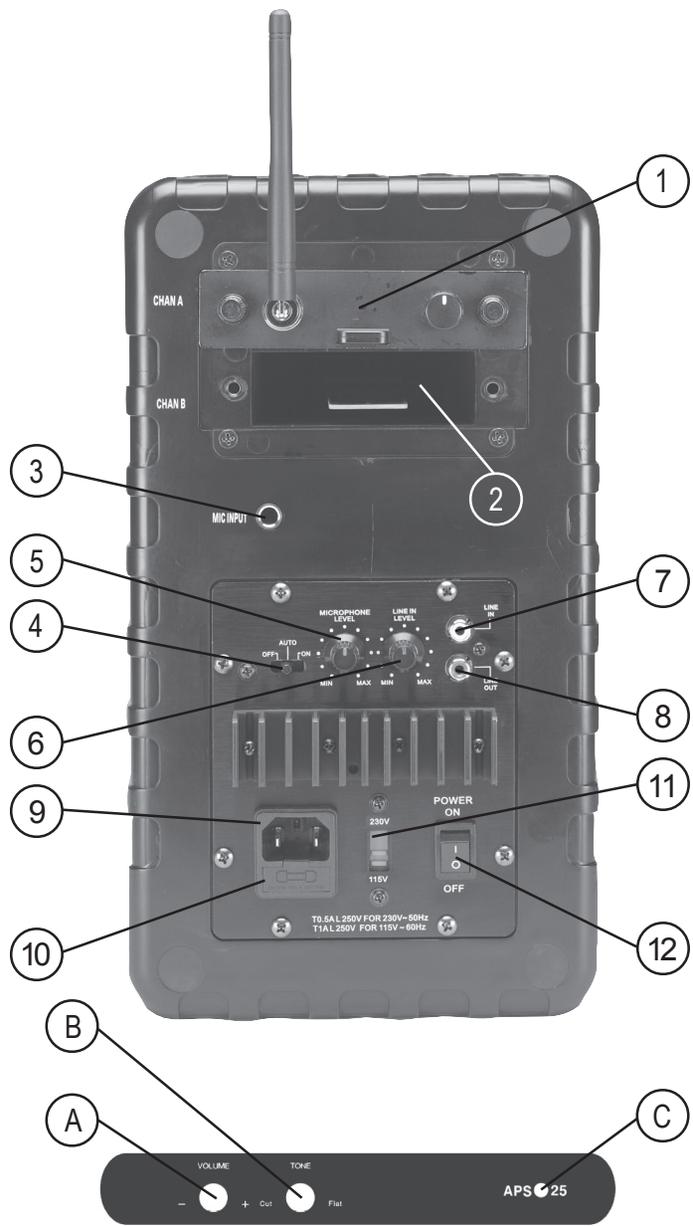
Again, congratulations, and thanks for choosing Azden®.

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APS VR VHF receiver module



31XT Plug-in transmitter adaptor:

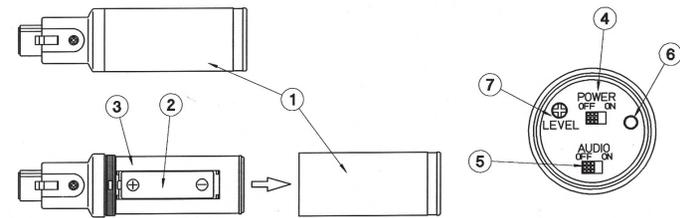
Note: The 31XT is designed to turn any wired dynamic metal-body microphone that has an XLR output into a wireless microphone.

Connecting the 31XT:

Disconnect the microphone cable from the microphone by pushing down on the release button where the microphone and cable connect. Connect the 31XT by lining up the pins on the microphone with the holes on the transmitter, and insert. Push the 31XT into the microphone until it locks into place.

Removing the 31XT:

Push down on the release button and pull out.



- (1) Turn the bottom half of the case counterclockwise until it is completely off.
 - (2) Insert one fresh alkaline "AA" battery into the compartment. Make sure battery polarity is correct. Replace the bottom half of the case and turn clockwise until snug. **DO NOT OVERTIGHTEN.**
 - (3) Frequency Label:
The frequency label indicates what frequency (in MHz) the transmitter broadcasts on. The AZDEN receiver in use must also be on the same frequency.
 - (4) Power Off/On: Switches the transmitter off or on.
 - (5) Audio Off/On:
Slide the switch to "On" for normal operation. Slide it to "Off" to mute the audio.
- NOTE: When turning the transmitter on, slide the Power "On" first, and then slide the Audio to "On". When turning the transmitter off, first slide the Audio to "Off".
- (6) LED:
RED when Power is "On" and Audio is "Off". GREEN when Power and Audio are both "On".

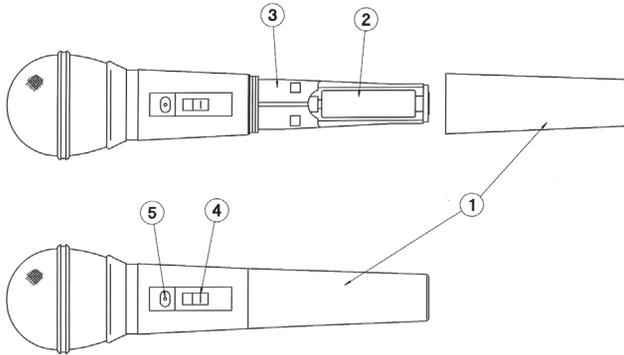
- (6) 3-Position Switch
 Left position:OFF - Middle position:STANDBY - Right position:ON
 In the "STANDBY" position, the audio is muted.

- (7) LED Indicator
 RED when switch is in "STANDBY" position - GREEN in "ON" position.

NOTE: Remove the battery if the transmitter will not be used for a long period of time.

31HT Handheld Microphone Transmitter:

- (1) Turn the bottom half of the microphone case counterclockwise until it is completely off.
- (2) Insert one fresh Alkaline "AA" battery into the compartment. Make sure battery polarity is correct. Then replace bottom half of microphone case and turn clockwise until snug. **DO NOT OVERTIGHTEN.**
- (3) The frequency label indicates what frequency (in MHz) the transmitter broadcasts on. The AZDEN receiver in use must be on the same frequency.



- (4) 3-Position Switch
 Bottom position:OFF - Middle position:STANDBY - Top position:ON
 In the "STANDBY" position, the audio is muted.
- (5) LED indicator
 RED when the switch is in "STANDBY" position - GREEN in "ON" position.

NOTE: Remove the battery if the transmitter is not used for a long period of time.

Installing an APS module... (see photo - page 1)

All APS modules install into the APS 25 in the same manner. To install, first remove the blank panel by loosening the two retaining thumb screws. Next remove the "shorting board" by pulling it straight out. Now, simply slide the module into the slot and lightly press until the connector in the rear engages and the front panel is flush. Last, replace the two thumb screws and tighten snugly. Any APS module can be inserted into either slot. Save the "shorting board(s)" for possible later use.

NOTE: If you purchased your APS 25 with one or two modules, they have already been installed.

The APS 25 Inputs/Outputs and Controls...

- A. **MASTER VOLUME CONTROL** - controls the overall volume of the APS 25 as well as the **LINE OUT** (8) connector.
- B. **TONE** - this is a variable frequency high-cut tone control that is primarily used to reduce high-frequency feedback. The control is essentially flat when turned fully clockwise and reduces more high frequencies as it is rotated counterclockwise.
- C. **LED** - displays the power state of the speaker. See (4) for details.
 1. **CHAN A** slot - any module can be installed here.
 2. **CHAN B** slot - any module can be installed here.
 3. **MIC INPUT** - plug a wired dynamic microphone in here. This 1/4 inch jack is designed to accept a low impedance microphone. The input volume is controlled by the **MICROPHONE LEVEL** knob (5).
 4. **OFF/AUTO/ON** switch - this controls the power for the speaker *after* the **MASTER AC SWITCH** (12) is placed in the **ON** position.
 - The speaker is essentially OFF with this switch in the **OFF** position. The front panel LED (C) will glow Red.
 - The speaker will come ON from its standby mode automatically when any signal is sensed when the switch is in the **AUTO** position. The LED (C) will turn from Red to Green. 10 minutes after all audio stops the speaker will return to its standby mode and the LED (C) will return to Red.
 - The speaker is ON at all times when the switch is in the **ON** position. The LED (C) will glow Green.
 5. **MIC LEVEL** - this knob controls the input volume of the microphone plugged into the **MIC INPUT** (3). It is always good practice to leave the control turned all the way down (full counterclockwise) when no microphone is being used.
 6. **LINE LEVEL** - this knob controls the input volume of anything plugged into the **LINE IN** (7) jack.

7. **LINE IN** - this mono RCA jack is designed to accept audio from devices such as CD players, video tape players or anything else with a line-level audio output. The input volume is controlled by the **LINE LEVEL** knob (6).
8. **LINE OUT** - this mono RCA jack provides line-level audio to drive additional speakers or other audio devices with a line-level input. The level is controlled by the **MASTER VOLUME CONTROL** (A) on the front panel. If this output is used to drive the **LINE IN** (7) of a second **APS 25**, the **MASTER VOLUME CONTROL** (A) will control the overall volume of both speakers.
9. **AC JACK** - this is where the removable AC plug is attached to the speaker. The AC plug is polarized and will only attach one way.
10. **AC FUSE** - the replaceable AC fuse is housed here. Follow the marking on the panel for proper replacement if needed (0.5A for 210-240VAC use or 1.0A for 110-125VAC use).
11. **AC VOLTAGE SELECTOR** - set **down** when used with 110-125VAC (US and other areas) and **up** when used with 210-240VAC (Europe and other areas). Be sure to check your local voltage before adjusting the selector. The speaker is shipped from the factory set in the 110-125VAC position and with a cable designed for that voltage.

Mounting the APS 25

- Wall Mounting (see photo - page 9)

The **APS 25** is supplied with a wall mounting bracket. It can be attached to the speaker via the built-in 1/4" X 20 threaded holes on the top and bottom of the speaker using the included large screws. Supplied rubber pads can be applied to the inside surface of the bracket to protect the speaker surface from scratching and reduce the possibility of the speaker rotating in the bracket. The bracket can be attached to the desired surface using a number of different fasteners. Be sure to use fasteners that are appropriate for the surface you are mounting to and that can support the speaker's weight. Once the desired position is achieved, tighten the screws securely.

- Stand Mounting

The **APS 25** has two industry-standard 5/8" x 27 threaded inserts moulded into the cabinet - one on the bottom and one on the side. These allow the speaker to be securely mounted to a stand (such as a microphone stand). Be sure to tighten the speaker securely to the stand. Also, be sure that the stand can support the weight of the speaker and that it will be stable with that weight attached.

- Flat surface

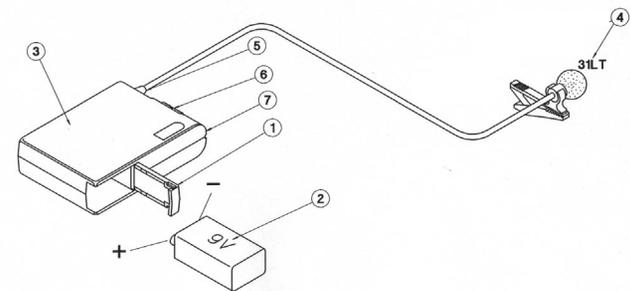
Four self-adhesive anti-skid pads can be applied to the bottom or side of the speaker to help stop it from moving when placed on a flat surface.

Using an APS VR module and VHF Transmitter(s)...

The **APS VR** receiver module comes pre-adjusted to one of 30 different VHF frequencies between 169MHz and 213MHz. The particular frequency(s) you have were chosen to not interact/interfere with TV stations in your area. After installing the module (page 2) you will have to attach the antenna and position it as close to vertical as possible. The volume control on the module adjusts the input volume of that particular module. Try to keep it set near its mid point for best performance.

Transmitters...

Model 31LT: Lavalier microphone with body-pack transmitter. Ideal for speaking applications such as Lecturers, Actors, Actresses, etc.



- (1) Open the battery compartment lid by sliding it down and raising it.
- (2) Insert one fresh Alkaline 9-volt battery into the compartment. Make sure the battery polarity is correct.
- (3) Frequency Label
The Frequency label indicates what frequency (in MHz) the transmitter broadcasts on. The AZDEN receiver in use must also be on the same frequency.
- (4) 31LT lavalier mic:
Clips onto a tie, lapel, etc. The transmitter's cable doubles as an antenna. Extend the cable as much as possible for the best performance.
- (5) Audio Input Level Control
Turn clockwise to increase, or counter-clockwise to decrease the input level. A small screwdriver is supplied to make adjustments. The level control is factory-preset in the center position.