

# EXPEDITION XP1000

1000-WATT PORTABLE PA SYSTEM



Owner's Manual

**SAMSON**

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v1.3

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# Important Safety Information



AVIS  
RISQUE DE CHOC ÉLECTRONIQUE -  
NE PAS OUVRIR

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



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 28 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

# Important Safety Information

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Service is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Caution-to prevent electrical shock, match wide blade plug wide slot fully insert.
17. Please keep a good ventilation environment around the entire unit.
18. To prevent injury, this apparatus must be securely attached to the stand in accordance with the installation instructions.
19. **WARNING:** The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
20. **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.



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# Important Safety Information

## FCC Notice

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## RF Warning Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

**C€0700**

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# Introduction

Thank you for purchasing the Expedition XP1000 PORTABLE PA SYSTEM from Samson! The XP1000 delivers the optimum balance between huge, awesome sound and portability. The system is light enough for one person to carry, and packs together into a single unit, making it amazingly easy to transport even in the trunk of a compact car.

The XP1000 system is comprised of two 10" 2-way speaker cabinets, a 10-channel, 1000 watt powered mixer, and two speakers cables. The powered mixer packs neatly into the back of one of the speaker cabinets and there is a accessory compartment behind the second cabinet to hold the speaker and power cables. The two speakers feature our unique slide and lock design to join together, allowing the entire system to pack up into a single unit about the size of a carry-on piece of luggage.

The 10-channel mixer can be used while it is stored in the back of the speaker or removed from the speaker for desktop use. It features 4 inputs for connecting microphones, plus three inputs for connecting stereo signals, like those from a keyboard or MP3 player. There's also a built-in, 24-bit digital effects processor to add studio quality effects to your voice or instruments. For music playback, the XP1000 features wireless *Bluetooth*<sup>®</sup> connectivity, to stream audio from your smart phone, tablet, or computer. The mixer also provides a robust output, with 1000 watts of total power from the highly-efficient, lightweight, Class D amplifier section.

The XP1000 employs a matched speaker system with dual 2-way enclosures that have proprietary 10" woofers and 1" high frequency drivers loaded in a 90° x 60° horn for wide vertical coverage. To project the sound to a larger audience, the XP1000 speakers can be mounted on standard speaker stands, thanks to the integral pole mount receptacles. The XP1000 is constructed using durable ABS, high impact plastic, making it super road tough, and at the same time, lightweight.

The XP1000 is the perfect tool for your solo performance, garage band rehearsal, cocktail hour act, boardroom presentation, or classroom lecture. In this manual, you'll find a detailed description of the features of the XP1000 PA system, as well as step-by-step instructions for its setup and use, and full specifications.

We recommend you keep the following records for reference, as well as a copy of your sales receipt.

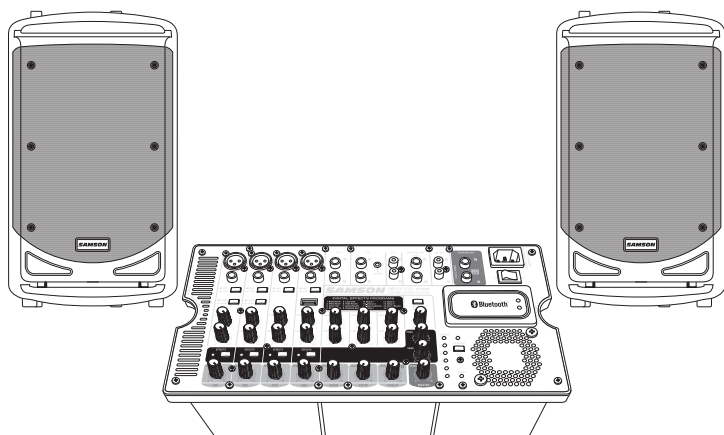
Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Dealer name: \_\_\_\_\_

With proper care and maintenance, your XP1000 will operate trouble-free for many years. Should your speaker ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please call Samson at 1-800-3SAMSON (1-800-372-6766) for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your XP1000 was purchased outside of the United States, contact your local distributor for warranty details and service information.

# Features

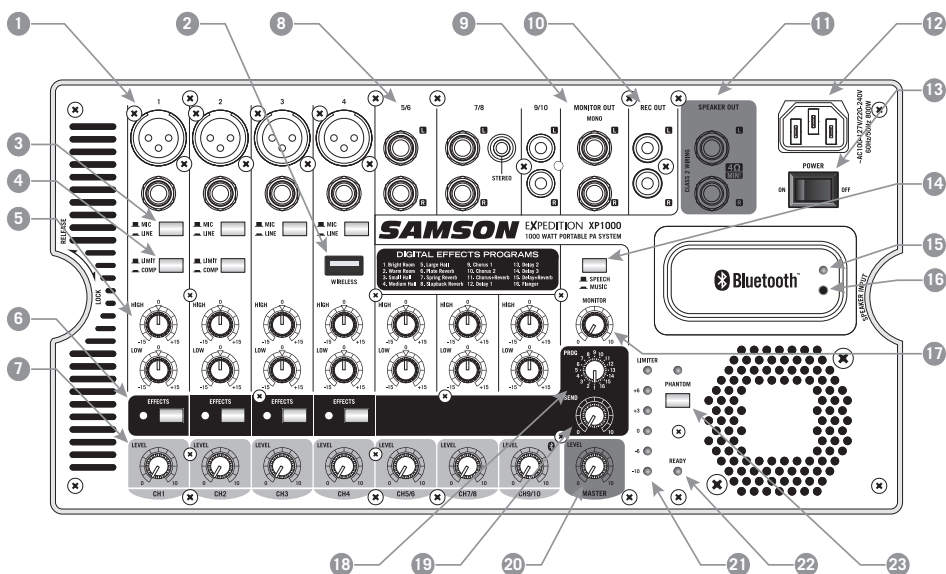


The Samson Expedition XP1000 is a compact portable PA system with dual 2-way speakers, onboard mixer and 1000 watt power amplifier. Here are some of the main features:

- Lightweight and designed to allow you to connect all the pieces together into a single, easy to move case.
- The mixer is stored in one of the speaker cabinets; the other cabinet has an accessory compartment for storing the speaker cables, microphones, etc.
- The speakers are tuned, 2-way vented enclosures with 10-inch woofers for deep bass, complimented by a 1-inch high frequency driver, set in a custom horn with a 60 x 90 degree coverage pattern producing a clean, clear sound.
- Internal 2 x 500 watt lightweight power amplifier produces a powerful stereo sound.
- The XP1000's mixer can be removed from the speaker for tabletop placement and you can use the kick stand to set the mixer at an ergonomically correct angle. You can also use the optional SMS510 adapter to mount the mixer to a microphone stand.
- The 10-channel mixer features four Mic/Line inputs allowing you to connect microphones or line level signals, plus three stereo inputs for connecting line signals from keyboards, drum machines and MP3 players.
- Each channel features bass and treble controls allowing you to tailor the sound of each input.
- To create a lush sound on the first four channels, you can select from the sixteen on-board, 24-bit digital effects.
- Bluetooth® connectivity allows you to stream wireless audio from your smartphone, tablet, or computer.
- For added flexibility, the XP1000's mixer has a Monitor Out, allowing you to connect external powered speakers or active subwoofer to expand the system.



# XP1000 Mixer Layout



## 1. Channel Input Jacks (channels 1 - 4)

**MIC – XLR connector** – Use these XLR jacks to connect low impedance microphones to the XP1000's built-in mic preamps.

**LINE – ¼" phone connector** – Use these ¼" jacks to connect instrument or audio sources with line-level signals to the XP1000. You can connect the outputs from acoustic guitar active pickups, keyboards, drum machines, CD/MP3/TAPE players and other units with line level outputs here.

## 2. USB WIRELESS Input\* – Connect the optional Samson Stage XPD1 digital wireless USB receiver to this input. The wireless receiver gets its power from the XP1000, so no additional power supply is needed. The WIRELESS input is routed to the channel 4 LEVEL control.

## 3. MIC/LINE switch (channels 1 - 4) -The MIC position changes the gain of both input jacks to MIC level. The LINE position reduces the gain of both jacks by 26dB to line level.

## 4. LIMIT/COMP switch - Set the LIMIT/COMP switch to the COMP position to apply compression or set it to the LIMIT position to apply limiting.

Compressors are used to control the dynamic range of a signal, which offers a variety of benefits including leveling a signal and increasing the loudness of a sound system to name.

A Limiter is a specific form of a compressor configured to prevent peaks and for general overload protection.

\* The USB connector is for the Stage XPD1 receiver only. The connector is not designed to charge smartphones, tablets, or similar devices.

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# XP1000 Mixer Layout

## 5. Equalizer control knobs

**HIGH Frequency** – The HIGH knob controls the amount of treble applied to each channel. The channel's high frequency response is flat when the knob is in the center detent (12:00) position. Rotating the knob to the right will boost the channel's high frequency response above 10 kHz by 15 dB, and rotating it towards the left will cut the high frequency response by 15 dB.

**LOW Frequency** – The LOW knob controls the amount of bass applied to each channel. The channel's low frequency response is flat when the knob is in the center detent (12:00) position. Rotating the knob to the right will boost the channel's low frequency response below 100 Hz by 15 dB, and rotating it towards the left will cut the low frequency response by 15 dB.

6. **EFFECTS switch** - Use the EFFECTS switch to add an effect to a Mic or Line input on any of the first four input channels. The EFFECTS indicator lights GREEN when the channel EFFECTS switch is ON.

7. **LEVEL knobs** - This knob sets the overall level for the input channel.

**NOTE:** To reduce noise, set the LEVEL controls on any unused channels to the minimum setting.

8. **Stereo Channel Input Jacks (channels 5/6, 7/8, 9/10)** - For stereo inputs, use the L input to connect the left channel and the R input to connect the right channel. Use these inputs to connect high impedance microphones, synthesizers, drum machines, MP3, CD, tape players or any other line level device. The XP1000 features ¼" phone, ⅛" phone, and RCA connectors.

9. **MONITOR OUT jacks** - The signal present at the MONITOR OUT jacks is sent from the MONITOR level control knob, which is fed from the input channels. The MASTER control does not affect the MONITOR OUT signal. This output can be used to send the mix to powered speaker cabinets to use as stage monitors, or as additional front of house speakers to expand the coverage of the system.

10. **REC OUT jacks** - This output is used to send the main mix to an external recorder. The signal present at this connector is the L/R bus signal before it has passed through the MASTER level control. The nominal output level is -10 dBV and the impedance is 600 Ohms.

11. **SPEAKER OUT jacks** - Two ¼" phone powered output jacks used to connect the left and right speakers. Use the included speaker cables to connect the speakers.

**CAUTION:** The total impedance load for each side of the amplifier must not be less than 4 Ohms. Do not connect additional speakers to the XP1000 mixer/amplifier.

12. **AC Input** – Connect the supplied heavy-gauge 3-pin "IEC" power cable here.

13. **POWER switch** - Use the POWER switch to turn power to the XP1000 on or off. The switch illuminates red when the unit is in the ON position and receiving power.

14. **SPEECH/MUSIC switch** - The SPEECH/MUSIC switch is used to change the overall

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# XP1000 Mixer Layout

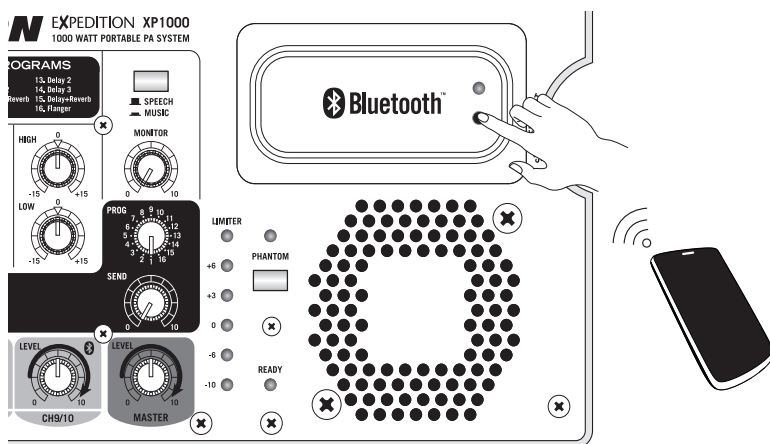
frequency response, or tone contour, for the XP1000 sound system. If your application is mainly for music, press the switch down to select the MUSIC response curve. If your application is mainly for spoken word, leave the switch up to select the SPEECH response curve.

15. **Pairing Indicator** - Displays the *Bluetooth* status of the XP1000 system.
16. **Pairing Button** - Press this button to enable discoverable mode in order to pair with a *Bluetooth* audio device.
17. **MONITOR level knob** - The MONITOR level control is used to control the overall level sent to the MONITOR OUT.
18. **Effects Program (PROG) selector** - This control knob is used to select one of 16, 24-bit DSP effects programs.
19. **Effects SEND knob** - The SEND knob is used to adjust the total amount of effects added to any channel that has its EFFECTS switch (see #6) pressed down.
20. **MASTER knob** - The MASTER volume knob controls the overall output level. This knob determines the final output signal level. Signals from all ten channels are routed here just before being routed to the built-in power amplifiers and Left and Right speaker output jacks (see #11).
21. **METER LED indicators** - This six-segment bar meter shows the XP1000's output level. For optimum signal-to-noise ratio, set the VOLUME control so that program material is usually at or around +3 to +6 VU, with occasional, but not steady excursions to the red "LIMITER" segment.
22. **READY indicator** - The indicator will illuminate when the power switch is turned on and the unit is ready to pass audio.
23. **PHANTOM switch** - The XP1000 features an onboard phantom power supply to operate condenser microphones. When the switch is engaged, the LED will illuminate indicating that phantom power is now available on the microphone pre-amps.  
**IMPORTANT NOTE:** To avoid a loud pop, be sure to turn down the MASTER level control before plugging and unplugging the mic cables when the phantom power is active.

# Pairing with a Bluetooth® device

**Bluetooth®** is a wireless communication technology that allows for connectivity between a wide range of devices. The XP1000 uses *Bluetooth* to stream high quality audio from your *Bluetooth* enabled device without the need for connecting any cables. In order for your device to work with the XP1000 it must first be paired.

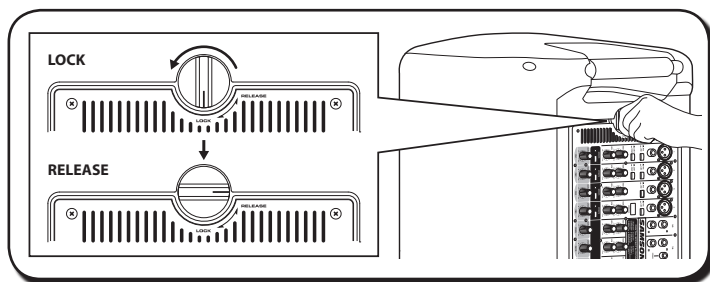
1. Turn all channel LEVEL controls down counterclockwise to **0**.
2. With the XP1000 and your *Bluetooth* device powered on; press the PAIR button on the top panel of the XP1000 mixer to make the speaker discoverable. The *Bluetooth* indicator will slowly flash blue.
3. In the settings of your *Bluetooth* device, set it to “discover” available devices.
4. From the *Bluetooth* device list, select the "Samson XP1000" device.
5. If your device asks for a passkey, enter digits 0000 (four zeros) and press OK. Some devices may also ask you to accept the connection.
6. As the XP1000 is connecting to your device, the *Bluetooth* indicator will quickly flash blue.
7. The XP1000 speaker indicates that pairing is complete when the indicator turns steady blue. You can now stream audio from your device to the XP1000 speakers.
8. With the volume control on your *Bluetooth* device turned up, play some music, and slowly raise the XP1000 BLUETOOTH channel 9/10 LEVEL control until you have reached the desired level.



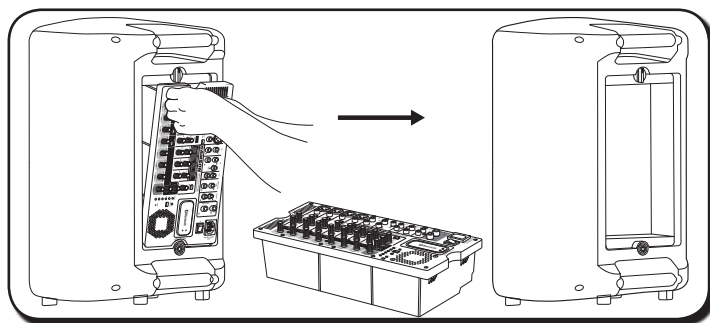
# Setting Up the XP1000

Unpack all the system components from the shipping carton and save all packing materials in the event your unit ever needs to be returned for service.

Remove the mixer by turning the quarter turn screw counterclockwise towards the RELEASE position.

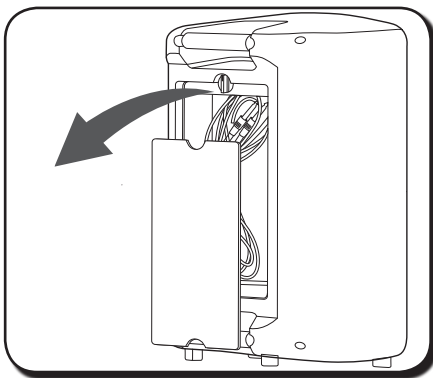


Carefully hold the mixer to remove it from the speaker.



Remove the accessory compartment cover by turning the quarter turn screw counterclockwise towards the RELEASE position, and remove the included speaker cables.

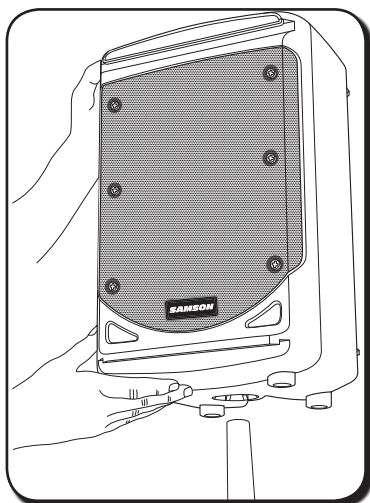
Replace the accessory panel by aligning the bottom of the panel with the slots. Make sure the quarter turn screw is in the RELEASE position; then close the panel and turn the quarter turn screw clockwise to LOCK.



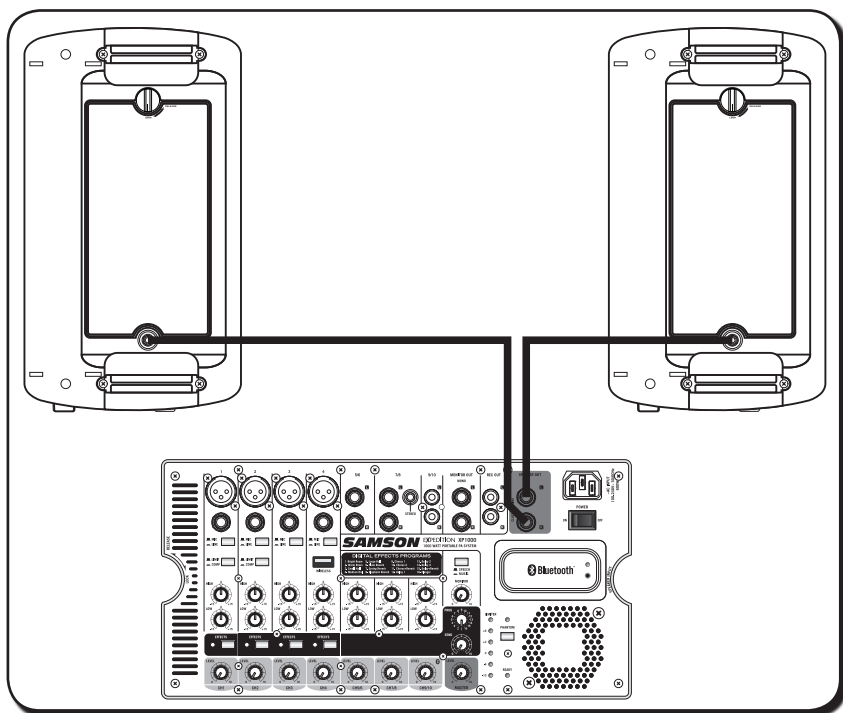
# Setting Up the XP1000

Position the speakers on the floor or on stands.

For maximum sound coverage the XP1000 can be used with a standard 1 $\frac{3}{8}$ " speaker stand. The speaker should be raised above the heads of the listening audience. Take care when placing the speaker on a stand, to ensure that it is on a level, steady surface and will not tip over. When using the speaker on the floor, or when the speaker is below the listener, the XP1000 features a monitor angle position to project the sound up, towards the audience.

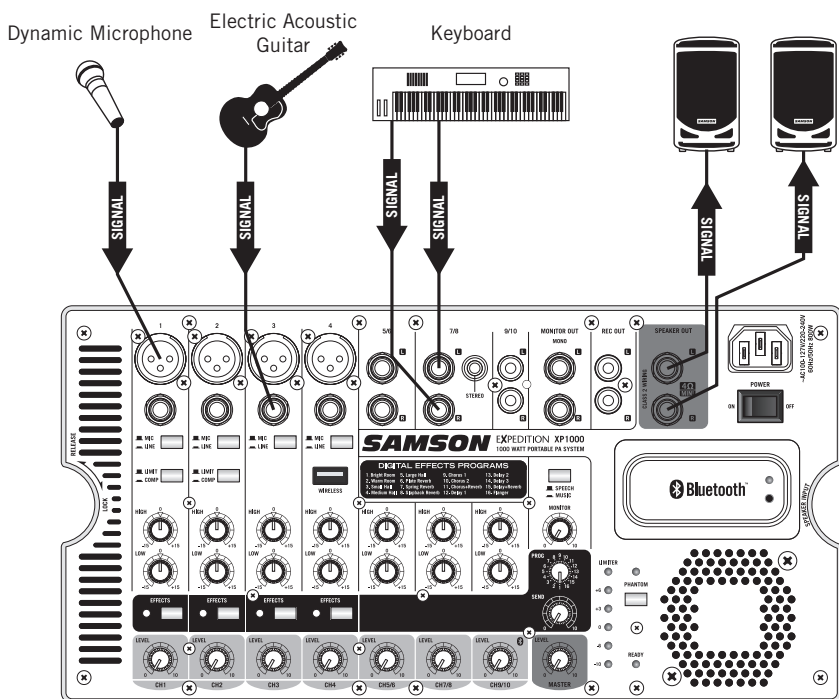


Using one of the included speaker cables, connect the mixer's LEFT SPEAKER OUT to the left speaker's input connector. Next, use the second included speaker cable to connect the RIGHT SPEAKER OUT to the right speaker's input connector.

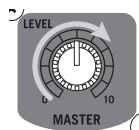


# Quick Start

1. Be sure that the XP1000's POWER switch is set to the OFF position.
2. If the speakers are not connected, connect the speaker wires as described in the previous section.
3. Turn each of the channel LEVEL and MASTER volume controls fully counterclockwise, to the "0" position.
4. Next, connect one side of the included power cable to the XP1000 mixer's power inlet and the other to a grounded AC power outlet.
5. Connect your microphones using standard XLR cables, instruments using ¼" phone cables, and MP3 player using ⅛" cable, into the appropriate jacks on the mixer.

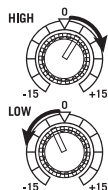


6. Switch on all equipment connected to the XP1000, then switch the XP1000's POWER switch to the ON position.
7. Turn the MASTER level control up halfway, to the "5" position.
8. Start talking or playing into channel 1 while slowly adjusting the LEVEL control until you have reached the desired level. Do the same for each channel you are using.



## XP1000 Quick Start

9. If you notice that the LIMITER indicator is lighting constantly, turn the MASTER volume down so that the indicator only lights occasionally during loud hits.
10. To add depth to the mix or smooth out the vocals, you can apply effects such as reverb to channels 1–4. To do this, press the EFFECTS button on the channel(s) to which you would like to add the effect.
11. Slowly turn up the effects SEND knob until the desired sound is reached.
12. To alter the tonal characteristic of the signal, you can adjust the LOW (bass) and HIGH (treble) controls. If you find the audio too muddy, you may want to reduce the LOW control. If you find that the audio sounds dull, you can increase the HIGH control. There is no right or wrong way to EQ a sound. You should listen to how the mix sounds in the room and fine-tune to your liking.





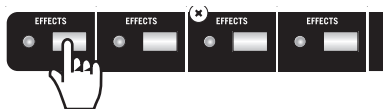
# Applying Effects

The XP1000 features built-in, high quality, 24-bit digital effects that you can add to channels 1 through 4. You can use effects like delay or reverb to enhance vocals or ambiance to the mix by following the steps below:

1. Connect a mic or instrument to the desired channel, and adjust the volume and equalizer to your liking.
2. Use the Reverb Program selector to choose one of the ten built-in digital effects.



3. Press the EFFECTS switch down on the channel to which you want to add the digital effect.



4. Once you have selected the channel(s) for effects by using the channel EFFECTS switch, raise the effects SEND main level control to apply the amount of effect desired.

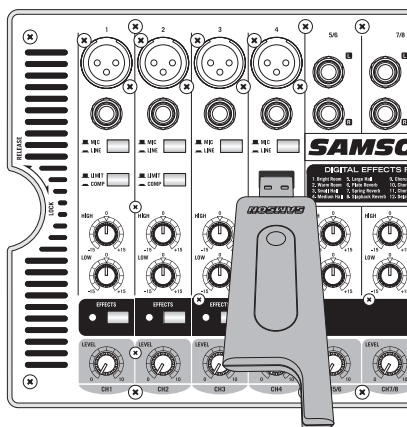


## Avoiding Feedback

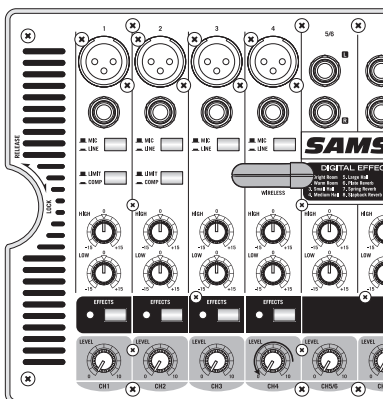
Feedback is the annoying howling and squealing that can heard when the microphone picks up sound from the speaker. The sound is then re-amplified back through the speaker again, creating a feedback loop. Follow these steps to minimize the likelihood of feedback:

- Avoid pointing the microphone directly at the speakers. In general it is recommended that the microphone be positioned behind the speaker enclosure. This uses the directional characteristics of the speaker and microphone to your advantage.
- Keep the microphone as far from the speakers as possible. This will help achieve isolation between the speaker and the microphone, and allow you to increase the output of the XP1000.
- Position the microphone as close to the sound source as possible. This will enable the microphone to pick up more direct sound, and allow you to reduce the microphone input gain control.
- Reduce the MASTER LEVEL of the XP1000 system.

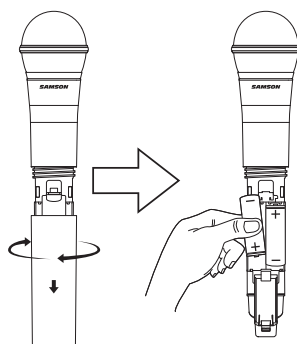
## Stage XPD1 Wireless System (Optional)



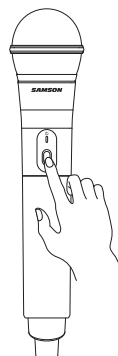
Plug the RXD1 USB receiver into the Channel 4 USB jack labeled **WIRELESS**.



Turn the channel 4 **LEVEL** knob on the XP1000 completely counterclockwise to 0, then turn the **POWER** switch on the XP1000 to the **ON** position.

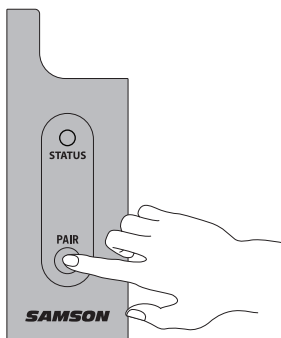


On the wireless handheld transmitter, unscrew the bottom section of the microphone by turning it counterclockwise and then slide it off. Place a fresh set of AA (LR6) batteries in the transmitter battery holder, taking care to observe the polarity markings, then replace the cover.

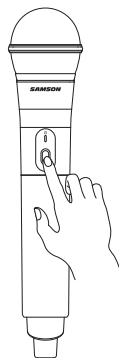


Turn on the power to the transmitter by pressing and holding **Power** switch; the indicator LED will light amber.

## Stage XPD1 Wireless System (Optional)

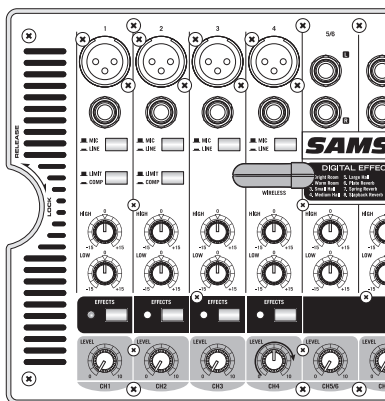


If the handheld transmitter and receiver have not been previously paired, press and hold the button on the RXD1 receiver for >5 seconds, until it begins to flash.



Press and hold the Power button on the handheld transmitter >5 seconds.

This will put both components into pairing modes. Once the receiver and transmitter communicate and sync, the LEDs on both units will light steady and will be ready for operation.



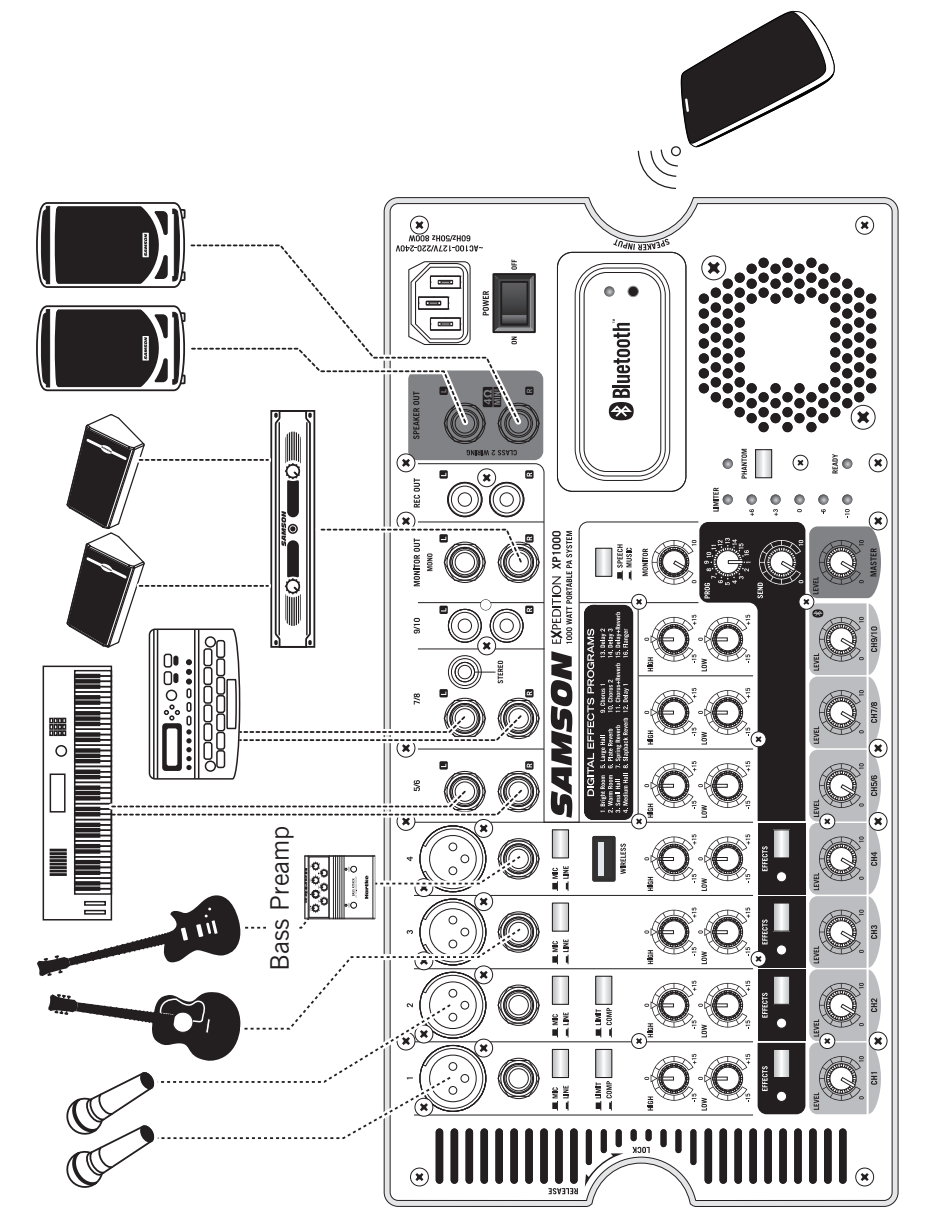
Raise the MASTER LEVEL control and speak or sing into the mic at a normal performance level while raising the Channel 4 LEVEL control until the desired level is reached.

If you hear distortion check the LIMITER LED. If it is lit red, turn down the channel 4 LEVEL on the XP1000 until it lights only occasionally during loud sounds. If you still hear distortion, unscrew the microphone body and use the supplied plastic screwdriver to turn the Gain control in the HXD1 transmitter slowly counterclockwise until the distortion disappears.

Conversely, if you hear a weak, noisy signal at the desired volume level (and with the WIRELESS control of the XP1000 turned fully clockwise), use the supplied plastic screwdriver to turn the Gain control in the HXD1 transmitter slowly clockwise until the signal reaches an acceptable level.

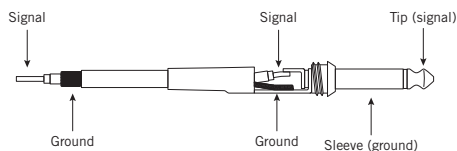
# XP1000 Connections

There are several ways to interface the XP1000 to support a variety of applications. The XP1000 features balanced inputs and outputs, so connecting balanced and unbalanced signals is possible.

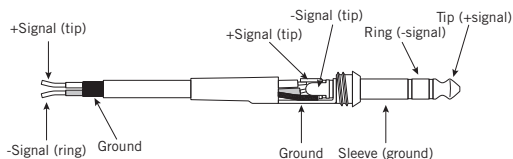


# Wiring Guide

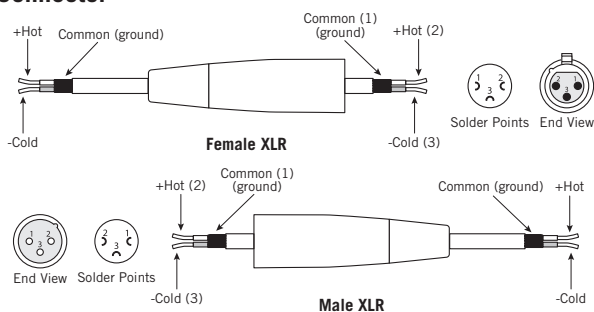
## Unbalanced 1/4" Connector



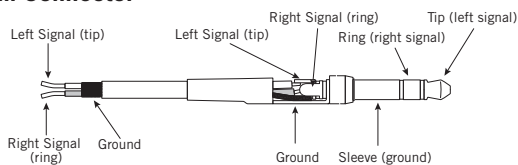
## Balanced TRS 1/4" Connector



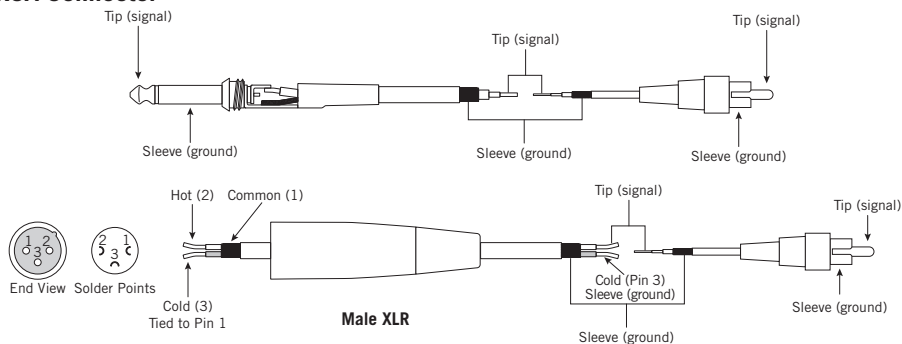
## XLR Balanced Connector



## Stereo TRS 3.5mm Connector



## RCA Connector

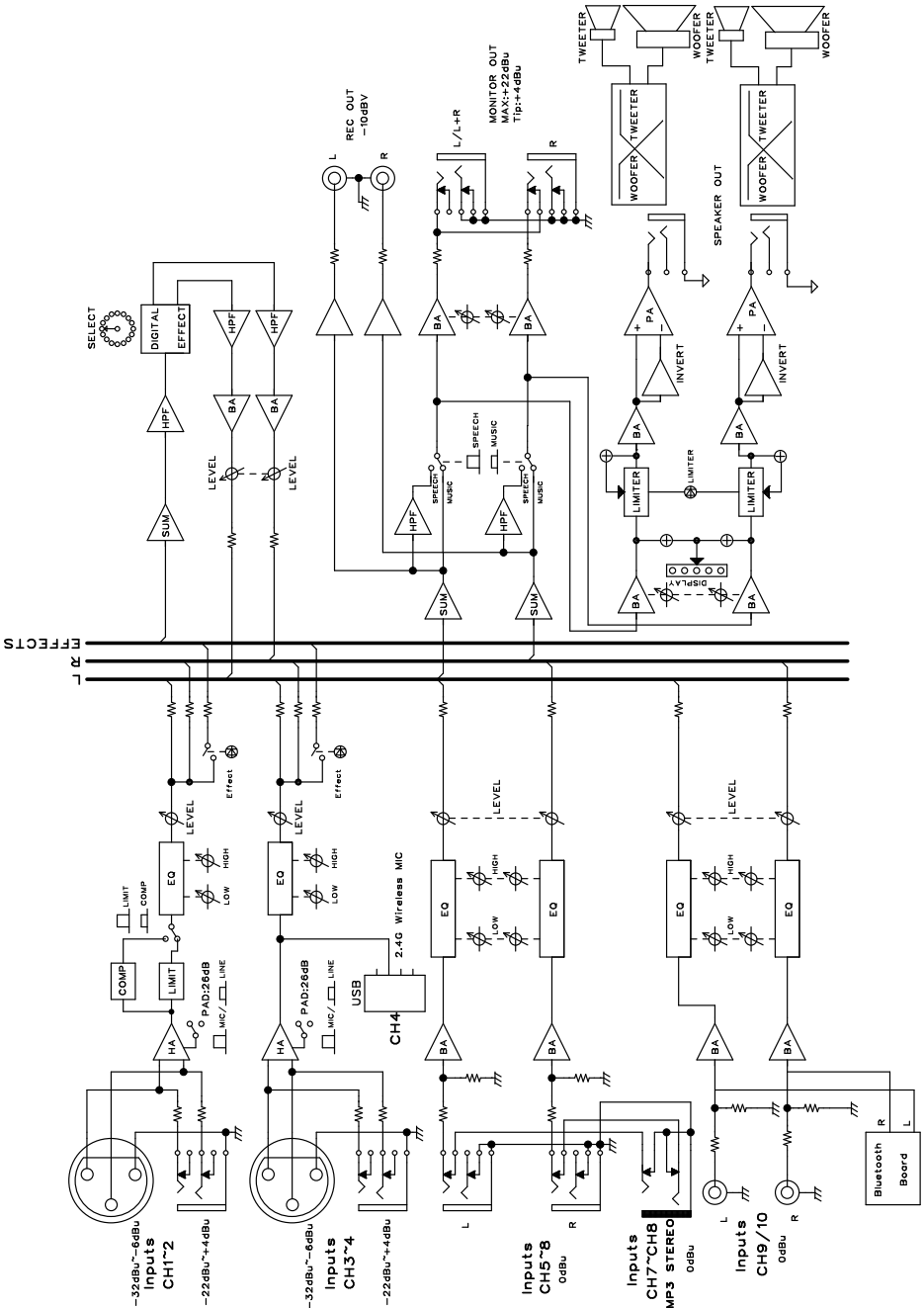


# Specifications

Amplifier		
Power (0.5% THD at 1KHz)		1000 W @ 4Ω (500 W per channel) Peak
		500 W @ 4Ω (250 W per channel) Average
Frequency Response		20 Hz - 20 kHz
Power Consumption		AC INPUT 100V~240V,50/60Hz 800W
Speakers		
Low Frequency		10" bass transducer
High Frequency		1" tweeter
Mixer		
Inputs		XLR, ¼" balanced, RCA, 3.5 mm stereo, USB Wireless
Outputs		¼" MONITOR, RCA REC OUT, ¼" Speaker output
Maximum Output Level (0.5% T.H.D at 1KHz)		+22dBu(MONITOR L/R) @10KΩ +14dBu(REC) @10KΩ
Phantom Power		+15V DC, Fixed Phantom Voltage
Input Channel EQ	High	10kHz Shelving ±15 dB
	Low	100Hz Shelving ±15 dB
Speech/Music Switch		167Hz, 3dB/Octave
Indicators		5-point Level, LIMITER, PHANTOM, READY, EFFECTS
Bluetooth®		Bluetooth 3.0, A2DP
Dimensions and Weight		
Dimensions		22.7"(L) x 11.9"(W) x 22"(H) 577 mm(L) x 301 mm(W) x 560 mm(H)
Weight		52.8 lb / 24 kg

*At Samson, we are continually improving our products, therefore specifications and images are subject to change without notice.*

# Block Diagram



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