EXPEDITION

XP108W

200-WATT PORTABLE PA SYSTEM

Owner's Manual

SAMSON

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Important Safety Information

AVIS
RISQUE DE CHOC ÉLECTRONIQUE -
NE PAS OUVRIR

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.

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.

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 lightening 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.

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.

Introduction

Thank you for purchasing the XP108w battery-powered portable sound system, featuring wireless Bluetooth® connectivity, to stream audio from your smart phone, tablet, or computer. The XP108w is a complete all-in-one solution providing the flexibility of a four-channel mixer (with inputs for a microphone and line level devices), a line output for linking multiple speakers, and a master EQ. For a completely untethered performance, the XP108w includes a wireless handheld microphone.

For added flexibility, the XP108w mixer has a USB jack for connecting the Samson XPD digital wireless system, creating a dual wireless performance.

Lightweight and compact, the XP108w features 200 watts of power weighing less than 24lbs, makes it an excellent complement to any mobile speaker application. The internal battery provides up to 20 hours of audio on a full charge. The XP108w can also be AC powered (with the included power cord) for continuous audio.

Whether you are looking for a sound system for use outdoors, in the classroom, for karaoke, for presentations, or performing live music, the XP108w provides high quality, portable audio in a small self-powered package.

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

Serial number: _____

Date of purchase: _____

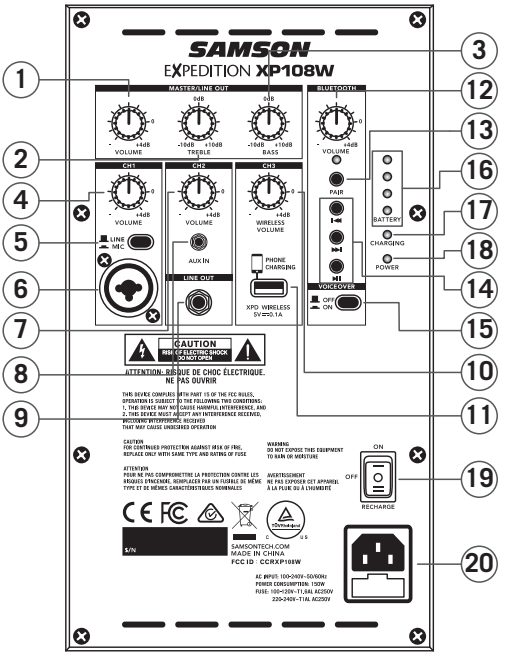
If you have any questions or comments regarding the XP108w Portable PA System or any other products from Samson, do not hesitate to contact us at support@samsontech.com.

With proper care and maintenance, your XP108w Portable PA System will operate trouble-free for many years. Should your XP108w Portable PA System 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 visit www.samsontech.com/ra 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 XP108w Portable PA System was purchased outside of the United States, contact your local distributor.

Features

- Lightweight, 200 watt PA system that weighs 24 pounds
- Bluetooth connectivity to connect wireless music sources
- 2-way speaker enclosure with 8” woofer and 1” high-frequency driver
- Four channel mixer with microphone, line level, and USB wireless receiver inputs.
- Integrated 1 3/8” speaker stand mount
- Ergonomic top carry handle
- Internal rechargeable battery for up to 20 hours of continuous use
- System equalization contour switch for music and spoken word applications
- Link output for expanding your sound system

Controls and Connections



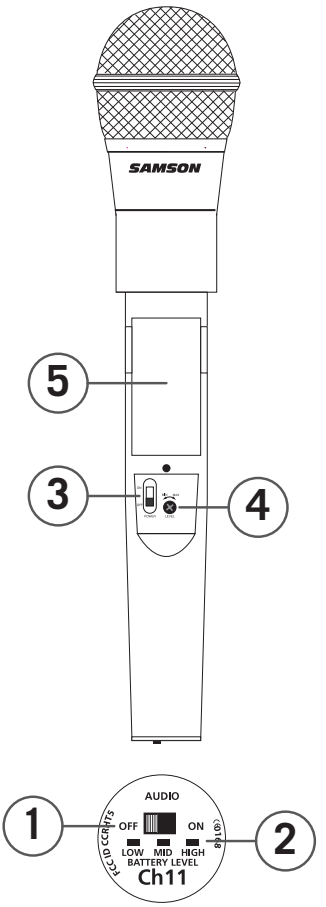
1. **MASTER VOLUME -** Used to control the overall level of the speaker system.
2. **MASTER TREBLE -** Controls the high-frequency tone of the entire system.
3. **MASTER BASS -** Controls the low-frequency tone of the entire system.
4. **CH1 VOLUME -** Controls the level of the Channel 1 Mic/Line input.
5. **LINE / MIC Switch -** Adjusts the gain of the CH1 input for a microphone or line level device.
6. **CH1 Input -** XLR/1⁄4" input for connecting a microphone or a device with a line level signal.
7. **CH2 VOLUME -** Controls the level of the Channel 2 Aux input.
8. **AUX IN -** Connect a line level device using a 1/8" audio cable.
9. **LINE OUT -** Line level 1/4" output jack to connect the XP108w to the input of a another XP108w to create a dual mono speaker system. The Line Out is before the MASTER VOLUME and EQ Controls.
10. **CH3 VOLUME -** Controls the level of the internal wireless microphone as well as the optional XPD USB wireless receiver.
11. **XPD WIRELESS Input* -** Connect the Samson XPD digital wireless USB receiver to this input. The wireless receiver gets its power from the XP108w, so no additional power supply is needed. The USB connector supplies 5V 200mA at of power to charge a small portable USB device like an MP3 player or smartphone.
12. **BLUETOOTH® VOLUME -** Controls the level of the *Bluetooth* input.
13. **PAIR Button -** Press this button to enable pairing mode in order to connect to a *Bluetooth* audio device.

Controls and Connections

14. **BLUETOOTH® Transport Buttons -** Audio controls for the connected Bluetooth device.
15. **VOICEOVER ON/OFF Switch -** Turns the VOICEOVER ducking on or off.
16. **BATTERY Level Indicators -** While the XP108w is powered ON and unit is not plugged in, these lights displays the status of the battery charge level.
17. **CHARGING Indicator -** When the XP108w is plugged in and the POWER switch is set to the RECHARGE position, the CHARGING indicator will illuminate RED while it is charging. Once charging is complete the indicator will turn off.
18. **POWER Indicator -** Lights green when the power switch is in the ON position.
19. **Power / Recharge Switch -** This three position switch is used to turn the XP108w ON, OFF or place the system into RECHARGE mode to charge the internal battery.
20. **AC INPUT -** Connect the supplied power cord here.

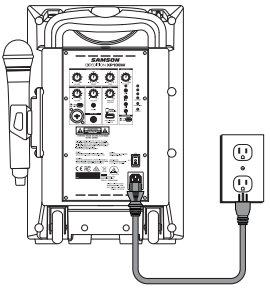
HT5 Wireless Microphone Controls

1. **AUDIO ON/OFF Switch -** Turns the handheld transmitter audio signal ON or OFF. When set to the "OFF" position, the audio signal is muted. Because the carrier signal remains on during muting, no "pop" or "thud" will be heard. Note that turning this off does not turn off the transmitter power, it is simply a way to temporarily mute the transmission of audio signal.
2. **Battery level meter -** This set of three multicolor lights indicates relative battery power, indicating whether the installed battery level is low (red), mid (yellow) or high (green) strength. One or more of these will light whenever the transmitter is powered on. When all three are lit, the battery is at maximum strength. When only the red "low" indicator lights, RF performance is degraded and the battery needs to be replaced.
3. **Power ON/OFF Switch -** Use this to turn the transmitter power ON or OFF. To conserve battery power, be sure to leave it off when not in use.
4. **LEVEL Control -** Adjusts the input sensitivity of the transmitter. Use the supplied plastic screwdriver to raise or lower the input level.
5. **Battery holder -** Insert a standard 9V battery here, being sure to observe the plus and minus polarity markings shown. We recommend the Duracell MN 1604 type battery. WARNING: Do not insert the battery backwards; doing so can cause severe damage to the transmitter and will void your warranty.



Quick Start

1. Set the XP108w power switch to the OFF position, and fully turn all of the LEVEL controls counterclockwise to 0.
2. If an outlet is available, connect the included power cord to the AC input of the speaker, and plug it into an electrical outlet.
3. Set the XP108w power switch to the ON position.
4. Connect your audio sources.
5. Turn the MASTER VOLUME control up and set the input levels, following the steps below.

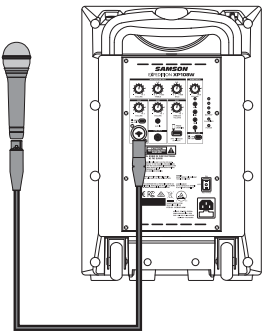


Making Connections

Channel 1 (Microphone / Line Input)

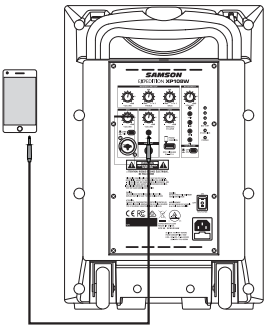
6. Connect a microphone using a standard XLR cable or line level equipment using a 1⁄4" instrument cable.
7. If connecting a microphone, set the LINE / MIC switch to the down (MIC) position. If connecting a line level device, set the LINE / MIC switch to the up (LINE) position.
8. While speaking into the microphone or playing music from a line level audio source, slowly raise the channel CH1 VOLUME control until you have reached the desired level.

NOTE: If not using the Channel 1 input, turn the VOLUME control all the way down to keep out any unwanted noise.



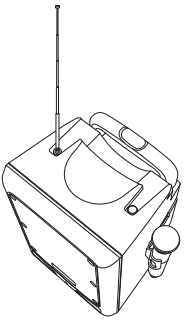
Channel 2 (Line Input)

9. Connect a line level device using 1⁄8" instrument cable.
10. While playing music from a line level audio source, slowly raise the channel CH2 VOLUME control until you have reached the desired level.

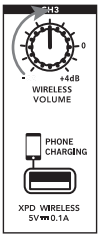


Channel 3 - Included Wireless Microphone

11. Physically place the XP108w where it will be used (the general rule of thumb is to maintain "line-of-sight" between the receiver and transmitter).
12. Fully extend the antenna on the top of the XP108w.
13. On the HT5 handheld transmitter, unscrew the bottom section of the microphone by turning it counterclockwise and then slide it off. Make sure the Power switch in the battery compartment is set to Off.
14. Place a fresh 9-volt alkaline battery in the transmitter battery holder, taking care to observe the polarity markings.

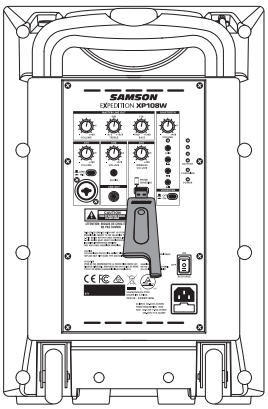


15. Turn on the power to the handheld transmitter using Power ON/OFF switch. Replace the bottom section of the handheld microphone by sliding it on and then screwing it back on.
16. Make sure the handheld transmitter is not muted by setting the Audio switch to the ON position. Speak or sing into the mic at a normal performance level and raise the CH3 WIRELESS VOLUME control until the desired level is reached.
17. If you need to adjust the microphone gain further (signal is distorted or too week), adjust the LEVEL control inside the battery compartment using the supplied screwdriver.



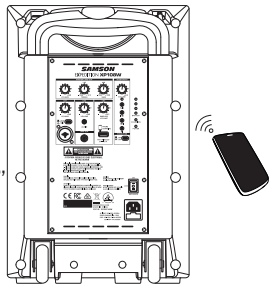
Channel 3 - XPD Wireless Microphone (sold separately)

18. Plug the XPD USB receiver into the XPD Wireless USB jack.
19. Turn the CH3 WIRELESS VOLUME knob on the XP108w completely counterclockwise to 0.
20. 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.
21. Turn on the power to the transmitter by pressing and holding Power switch; the indicator LED will light amber.
22. Speak or sing into the mic at a normal performance level and raise the CH3 WIRELESS VOLUME control until the desired level is reached.



Bluetooth®

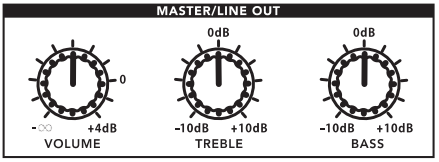
23. Turn the BLUETOOTH VOLUME control down counterclockwise to 0.
24. With the XP108w and your *Bluetooth* device powered on; press the PAIR button on the rear panel of the XP108w to make the speaker discoverable. The *Bluetooth* indicator will slowly flash blue.
25. In the settings of your Bluetooth device, set it to “discover” available devices.
26. From the Bluetooth device list, select the “Samson XP108W” device.
27. 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.
28. The XP108w speaker indicates that pairing is complete when the indicator turns steady blue. You can now stream audio from your device to the XP108w speakers.
29. With the volume control on your *Bluetooth* device turned up, play some music, and slowly raise the XP108w BLUETOOTH VOLUME control until you have reached the desired level.



Using the Master EQ

Quick Start

The XP108w feature a 2-band equalizer allowing you to adjust the systems overall high and low frequencies. The frequency response is flat when the knobs are in the vertical or 12 o'clock position. Small movements of the controls can make a big difference. Turning the controls all the way up can cause distortion. Use your ears when adjusting the EQ to fit your application. We have provided two example settings to help you get started fine tuning your system.

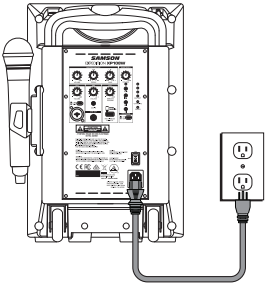


30. **Setting the EQ for Music**
    If you are using the XP108w for music playback, turn up the BASS and TREBLE slightly to produce a "hi-fi" frequency response that accentuates the low and high ranges.

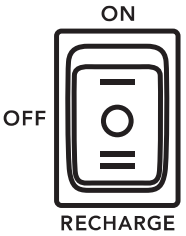
31. **Setting the EQ for Vocal**
    If you are using your XP108w with a microphone for speech only, you can reduce the BASS and raise the TREBLE slightly, which will produce a frequency response that accentuates the vocal range.

Charging the Battery

The XP108w has an internal, rechargeable battery capable of up to 20 hours of continuous audio on a full charge. Even though the system may have some charge when first taken out of the box, we recommend fully charging your XP108w before first using the system. To charge the battery:



1. Connect the XP108w to an AC power outlet using the included power cable.
2. Set the power switch to the "RECHARGE" position.
3. While charging the CHARGING indicator will light red.
4. Keep the system plugged in until the CHARGING indicator changes to green, indicating the battery is fully charged.



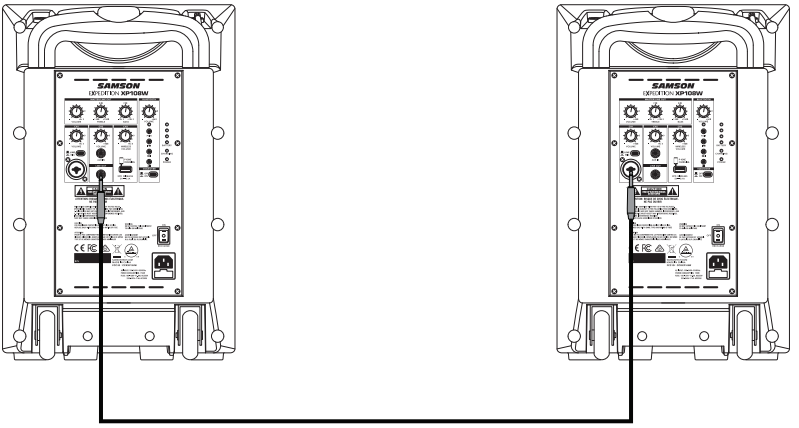
The XP108w utilizes a sealed lead-acid gel cell battery. When not in use, the battery will slowly self-discharge. If you are planning not to use the XP108w for a long period of time, it is advised to fully charge the unit before storing. It is also important to charge the unit every six months when not used. This will ensure a healthy battery and extend its life. If the battery is left with a very low charge for an extended period of time, it is possible to recharge the battery to working condition, but the charge time can take up to 72 hours.

If you find that the operation time of the XP108w becomes noticeably decreased, even after fully charging, the battery should be replaced. Contact Samson customer service or your local distributor for a replacement battery.

Using the LINE OUT Jack

The XP108w LINE OUT jack allows you to connect the XP108w with any powered speaker to expand your system or link two XP108w systems together to daisy chain the speakers.

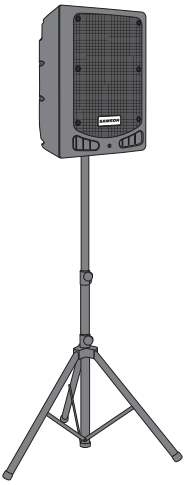
Using a standard shielded 1/4" instrument cable, connect the LINE OUT on the XP108w to a line level input of second powered speaker. The XP108w will send a mix of all inputs, including Bluetooth® audio. Each channel VOLUME will control corresponding output level to the LINE OUT jack.



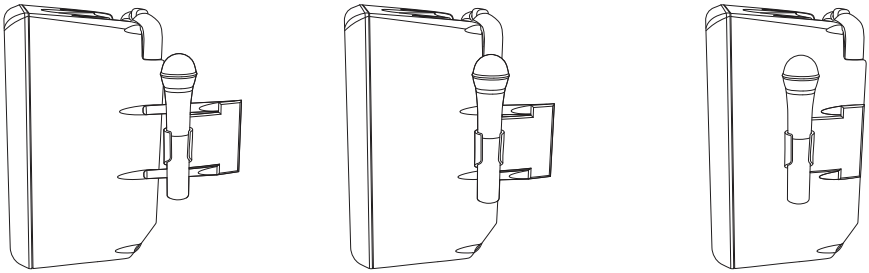
Using a Speaker Stand

The XP108w includes a 1-3/8" (35mm) pole mount receptacle on the bottom of the cabinet. This fits a standard 1-3/8" (35mm) speaker stand. For maximum coverage when using a 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. Use a stand designed to support a speaker with a minimum weight of 30lb.

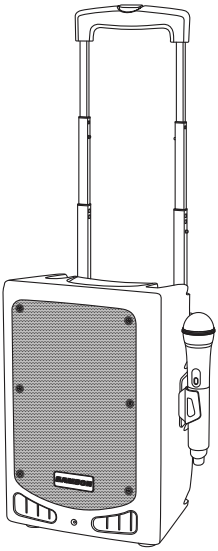


Microphone Holder



The Expedition XP108w includes a handheld microphone holder. To attach the microphone holder, line up the two prongs of the microphone holder with the center two round openings on the side of the XP108w. Slide the microphone holder into the openings until it is flush with the back of the speaker cabinet.

Transporting the XP108w



The Expedition XP108w can be easily transported using the telescopic handle and integrated rolling wheels.
Press button on the top handle to extend.
Grab the handle, tilt the speaker back and roll it away.

Specifications

XP108w

Power Output	200 watts (peak) / 100 watts (continuous)
Speakers	8" Woofer + 1" HF Driver
Frequency Response	60Hz–18kHz -3dB
Mic/Line Input	XLR - 1/4" combo connector
Aux Input	1/8"
Wireless Input	USB
Line Output	1/4" TS
Bluetooth	Bluetooth V4.0, A2DP
Working Frequency	2.402GHz~2.480GHz
RF Power	<10mW
Built-in Battery	12V / 3.5AH, Rechargeable & Sealed
Operation	Up to 20 hours subject to operating conditions
Battery Charging	Approx. 6 hours for a single charge
Power Supply	AC:100-120V/220-240V, 50~60Hz
Construction	Polypropylene
Grill	Perforated Steel Grill, powder coated
Mounting	Integral 1 3/8" Pole Mount Receptacle
Operating Temperature	-10°C ~ +40°C
Dimensions (LxDxH)	10.9" x 9.9" x 16.9" 277mm x 252mm x 429mm
Weight	23.8 lb / 10.8 kg

HT5 Wireless Microphone Transmitter

Frequency Range	173.80 MHz to 213.20 MHz (VHF Band)
RF Power	20 mW (USA models) 10 mW European / UK models
Operating Range	200 ft.
Audio Frequency Response	40 Hz to 15 kHz ±3 dB
T.H.D	< 1% @ 1 kHz
Current Consumption	34 mA (typical)
Battery Life (MN1604 9-volt alkaline)	6 hours (typical)
Operating Temperature	-10 to +55 degrees C
Controls	Power On/Off, Audio On/Off, Level Control
LED Indicator	Battery high/medium/low
Dimensions (ø x H)	1.46" x 9.17" / 37mm x 233mm
Weight	200 grams / 7.1 oz.

Having Trouble with your XP108w?
We can help!

CONTACT OUR SUPPORT TEAM: support@samsontech.com
Our experts can help you resolve any issues.

Follow us:

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