



**TS210W**

**TS212W**

**TS215W**

**User Guide**

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# User Guide (English)

## Introduction

### Box Contents

TS2 Series Loudspeaker    User Guide  
Power Cable                Safety & Warranty Manual

### Support

For the latest information about this product (system requirements, compatibility information, etc.) and product registration, visit [altoprofessional.com](http://altoprofessional.com).

## Important Safety Precautions

**Please note:** Alto Professional and inMusic are not responsible for the use of its products or the misuse of this information for any purpose. Alto Professional and inMusic are not responsible for the misuse of its products caused by avoiding compliance with inspection and maintenance procedures. Please also refer to the included safety and warranty manual for more information.



**Caution:** To reduce the risk of electric shock, do not connect a TS2 Series loudspeaker to a power outlet while the grille is removed.

## Stand-Mounting

- Always install loudspeakers in accordance with applicable electrical and building codes.
- Install the loudspeaker according to its maximum weight. Check the specifications of your stand or pole to ensure it can support the loudspeaker's weight. Also, observe all safety precautions specified by the manufacturer.
- Do **not** mount multiple loudspeakers on the same stand or pole.
- Always verify that the stand or pole is on a flat, level, and stable surface. Also, fully extend the legs of tripod-style stands, and ensure its legs do not present a trip hazard.
- Inspect the stand (or pole and associated hardware) before each use and do not use equipment with worn, damaged, or missing parts.
- Always be cautious in windy, outdoor conditions. You may need to place additional weight (e.g., sandbags) on stand's base to improve stability. Do not attach banners or similar items to any part of a loudspeaker system. Such attachments could act as a sail and topple the system.
- Unless you are confident that you can handle the loudspeaker's weight, ask another person to help you lift it onto the stand or pole.
- Make sure your cables are out of the way of performers, production crew, and audience so they will not trip over them, pulling the loudspeaker off the stand or pole.

## Sound Level

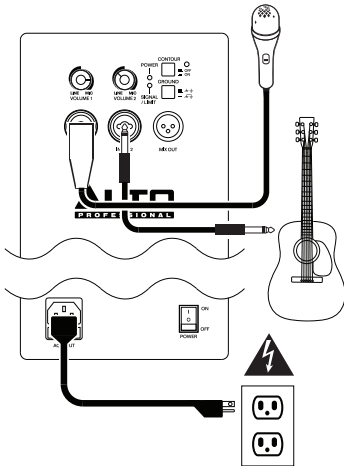
Permanent hearing loss may be caused by exposure to extremely high noise levels. The U.S. Occupational Safety and Health Administration (OSHA) has specified permissible exposures to certain noise levels. According to OSHA, exposure to high sound pressure levels (SPL) in excess of these limits may result in hearing loss. When using equipment capable of generating high SPL, use hearing protection while such equipment is under operation.

Hours per day	SPL (dB)	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classical music concert
1.5	102	Riveting machine
1	105	Machine factory
0.50	110	Airport
0.25 or less	115	Rock concert

## Quick Start

Items not listed under [Introduction > Box Contents](#) are sold separately.

### Example 1



Connect a dynamic microphone to the **Input 1** using an XLR or 1/4" (6.35 mm) TRS cable. Connect a guitar with an active pickup to the **Input 2** using a 1/4" (6.35 mm) TS or TRS cable (see your guitar's documentation for cable requirements).

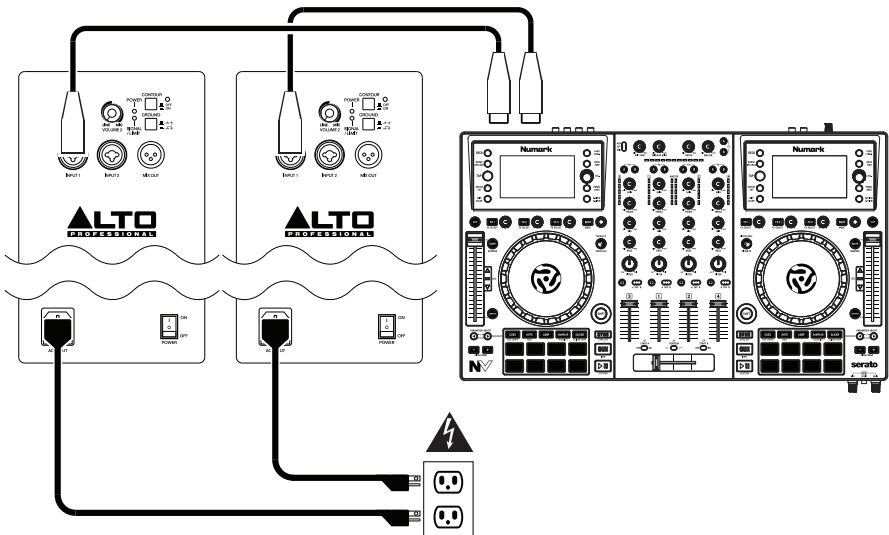
**Note:** When using the TS2 Series loudspeaker with a guitar, we recommend using one with *active* pickups rather than passive pickups. If you use a guitar with passive pickups, connect it to an external preamp or direct input (DI) box, and connect the line-level output to the loudspeaker.

Also, use dynamic microphones with the TS2 Series loudspeaker rather than condenser microphones. If you use a microphone that requires +48V of phantom power, connect it to an external phantom power supply before connecting it to the loudspeaker.

### Example 2

Connect the left and right output of your DJ mixer, controller, etc. to **Input 1** of each loudspeaker using XLR or 1/4" (6.35 mm) TRS cables.

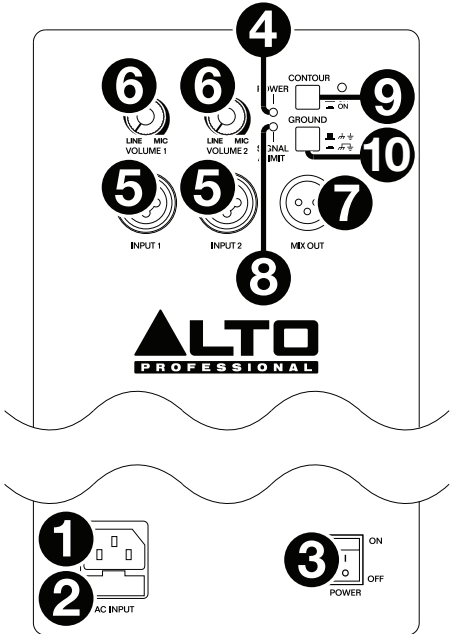
**Tip:** To send the same mix to both TS2 Series loudspeakers, connect both channels of your DJ mixer, controller, etc. to the **Input 1** and **Input 2** of one loudspeaker, and then connect that loudspeaker's **Mix Out** to the **Input 1** of the other loudspeaker. Both TS2 Series loudspeakers will then play identical summed mono mixes.



## Features

### Rear Panel

1. **Power Input:** Use the included power cable to connect this input to a power outlet. Make sure the speaker's **power switch** is set to "off" when connecting or disconnecting the cable.
2. **Fuse:** If the unit's fuse is broken, lift this tab to replace the fuse. Replace it with a fuse with an appropriate rating (printed under the unit's power cable input). Using a fuse with an incorrect rating can damage the unit and/or fuse.
3. **Power Switch:** Use this switch to power the loudspeaker on/off. Make sure all **volume** knobs are set to "zero" before powering it on.
4. **Power LED:** This light illuminates when the loudspeaker is powered on.
5. **Input:** Use a standard 1/4" (6.35 mm) TRS or XLR cable (not included) to connect your sound source to each input. Use the **input volume** knob to adjust the level of each one.
6. **Input Volume:** Turn this knob to adjust the volume of each **input**.
7. **Mix Out:** Use a standard XLR cable (not included) to connect this output to the input of another loudspeaker. The signal sent from this output is a summed mono signal of the two **inputs**.
8. **Signal Limit LED:** This light illuminates when a high audio signal level activates the internal protection circuit. The protection circuit dynamically reduces the signal level to avoid audible distortion and to protect the woofer and high-frequency driver from over-excursion or mechanical damage. If this light is lit constantly, or the sound is distorted, reduce the signal level of your sound source, or lower the volume with the **Volume** knob.
9. **Contour:** Engage (depress) this switch to emphasize low and high frequencies by +3 dB. Disengage (raise) the switch for a "flatter" response for live performance or for maximum output.
10. **Ground Switch:** Engage (depress) this switch to reduce hum or noise.



## Appendix (English)

### Technical Specifications

Specifications are subject to change without notice.

#### TS210

<b>Output Power</b>	1200 W peak 600 W continuous RMS
<b>Low Frequency</b>	10" (254 mm) woofer, 2" (51 mm) voice coil
<b>High Frequency</b>	1" (25mm) exit with 1" (25 mm) neodymium <b>compression</b> driver
<b>Crossover</b>	2.5 kHz
<b>Maximum SPL</b>	120 dB continuous, 123 dB peak (@ 1 m)
<b>Frequency Range</b>	53 Hz – 20 kHz (@ -10 dB)
<b>Frequency Response</b>	70 Hz – 19 kHz (+ 3 dB)
<b>Coverage</b>	80/100° H x 60° V nominal
<b>Connectors</b>	(2) 1/4" (6.35 mm) TRS or XLR inputs (1) XLR link output
<b>Cabinet</b>	Trapezoidal, injection-molded, polypropylene enclosure, with perforated steel grille
<b>Controls</b>	Volume, power on/off with LED, clip limiter with LED, ground lift
<b>Protection</b>	Electronic clip, thermal and transducer overdrive protection
<b>Power</b>	<b>AC Input:</b> 100–120/220–240 V, 50/60 Hz <b>Fuse:</b> 100-120 V T6.3AL AC250V / 220-240 V T3.15AL AC250V Inrush current at initial switch-on: 4.36 A Inrush current after power supply interruption: 3.73 A
<b>Dimensions</b> (width x depth x height)	20.2" x 13" x 11.7" 513 mm x 330 mm x 297 mm
<b>Weight</b>	26.6 lbs. 12.1 kg

#### TS212

<b>Output Power</b>	1200 W peak 600 W continuous RMS
<b>Low Frequency</b>	12" (305 mm) woofer, 2" (51 mm) voice coil
<b>High Frequency</b>	1" (25 mm) neodymium driver
<b>Crossover</b>	2 kHz
<b>Maximum SPL</b>	122 dB continuous, 125 dB peak (@ 1 m)
<b>Frequency Response</b>	52 Hz – 18 kHz (@ -10 dB)
<b>Coverage</b>	80/100° H x 60° V nominal
<b>Connectors</b>	(2) 1/4" (6.35 mm) TRS or XLR inputs (1) XLR link output

## TS212 (continued)

<b>Cabinet</b>	Trapezoidal, injection-molded, polypropylene enclosure, with perforated steel grille
<b>Controls</b>	Volume, power on/off with LED, clip limiter with LED, ground lift
<b>Power</b>	<b>AC Input:</b> 100–120/220–240 V, 50/60 Hz <b>Fuse:</b> 100–120 V T6.3AL AC250V / 220–240 V T3.15AL AC250V Inrush current at initial switch-on: 6.02 A Inrush current after power supply interruption: 4.16 A
<b>Dimensions</b> (width x depth x height)	26" x 15.6" x 15.1" 660 mm x 396 mm x 384 mm
<b>Weight</b>	42.8 lbs. 19.4 kg

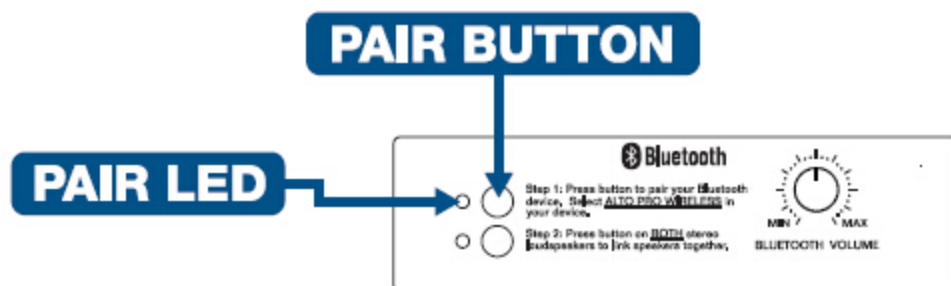
## TS215

<b>Output Power</b>	1200 W peak 600 W continuous RMS
<b>Low Frequency</b>	15" (381 mm) woofer, 2" (51 mm) voice coil
<b>High Frequency</b>	1" (25 mm) neodymium driver
<b>Crossover</b>	2 kHz
<b>Maximum SPL</b>	122 dB continuous, 125 dB peak (@ 1 m)
<b>Frequency Response</b>	48 Hz – 18 kHz (@ -10 dB)
<b>Coverage</b>	80°/100° H x 60° V nominal
<b>Connectors</b>	(2) 1/4" (6.35 mm) TRS or XLR inputs (1) XLR link output
<b>Cabinet</b>	Trapezoidal, injection-molded, polypropylene enclosure, with perforated steel grille
<b>Controls</b>	Volume, power on/off with LED, clip limiter with LED, ground lift
<b>Power</b>	<b>AC Input:</b> 100–120/220–240 V, 50/60 Hz <b>Fuse:</b> 100–120 V T6.3AL AC250V / 220–240 V T3.15AL AC250V Inrush current at initial switch-on: 3.61 A Inrush current after power supply interruption: 3.91 A
<b>Dimensions</b> (width x depth x height)	26.7" x 16.9" x 15.2" 679 mm x 430 mm x 385 mm
<b>Weight</b>	48.6 lbs. 22.0 kg

## Trademarks and Licenses

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# TO SET-UP 1 LOUDSPEAKER:



- 1** Press and release **PAIR BUTTON** on the loudspeaker.  
You should hear a tone repeat once every second; the PAIR LED will flash. Move to Step 3.
- 2** Select **ALTO PRO WIRELESS** on your Bluetooth audio device.
- 3** Wait for device to pair. This may take a while (roughly 60 seconds or longer).  
When successfully paired, the tones will stop and the PAIR LED will light solid. If the device fails to connect try steps 2 and 3 again.
- 4** Play Music.

**NOTE, IF YOU ARE EXPERIENCING PROBLEMS:** (1) Reset your loudspeaker by pressing and holding the bottom LINK BUTTON for 3 seconds until you hear a long tone. (2) On Your Bluetooth device, select "Forget" or "Unpair" ALTO PRO WIRELESS. (3) Repeat steps 1-4.

## TO RECONNECT AFTER POWER OFF/ON:

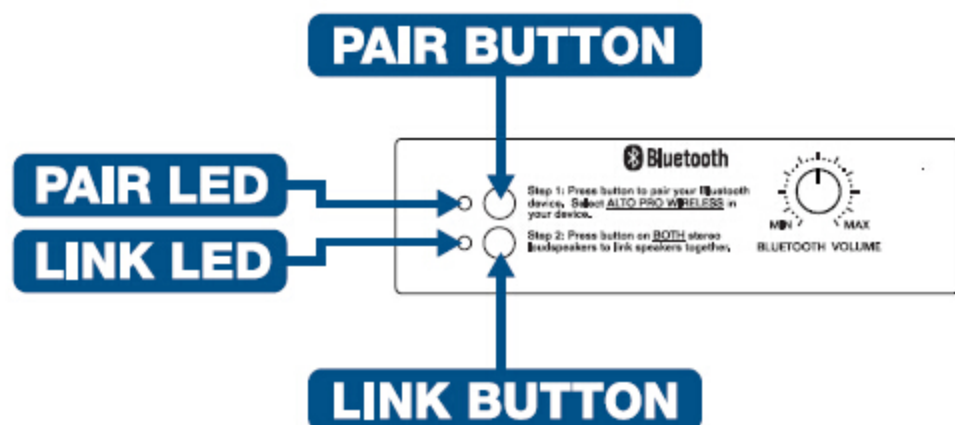
MASTER and SLAVE loudspeakers will reconnect automatically. On your Bluetooth audio device, pick **ALTO PRO WIRELESS** and press connect.

For instructional video and FAQs visit:

**[altoprofessional.com/wireless](http://altoprofessional.com/wireless)**



# TO SET-UP 2 LOUDSPEAKERS (STEREO):



- 1** Choose a **MASTER** loudspeaker.  
MASTER can be either loudspeaker. Be sure to choose only one. The remaining speaker will be the SLAVE.
- 2** Press and release **PAIR BUTTON** on the **MASTER** loudspeaker *only*.  
You should hear a tone repeat once every second; the PAIR LED will flash. Move to Step 3.
- 3** Select **ALTO PRO WIRELESS** on your Bluetooth audio device.
- 4** Wait for device to pair. This may take a while (roughly 60 seconds or longer).  
When successfully paired, the tones will stop and the PAIR LED will light solid. If the device fails to connect try steps 2 and 3 again.
- 5** Press and release **LINK BUTTON** on **MASTER** loudspeaker first.  
The LINK LED will flash and you will hear a repetitive tone sequence (beep beep). If this does not work, wait 5 seconds and press the button again.
- 6** Press and release **LINK BUTTON** on **SLAVE** loudspeaker.  
The LINK LED will flash and you will hear a repetitive tone sequence (beep beep). If this does not work, wait 5 seconds and press the button again.
- 7** Wait for **MASTER** and **SLAVE** to link.  
When successfully linked, the tones will stop and the LINK LEDs will light solid on both speakers. If they do not link after 2 minutes, power both loudspeakers off, then back on and return to step 2.
- 8** Play Music.

**NOTE, IF YOU ARE EXPERIENCING PROBLEMS:** (1) Reset your loudspeakers by pressing and holding the bottom LINK BUTTONS on each loudspeaker for 3 seconds until you hear a long tone from each. (2) On Your Bluetooth device, select "Forget" or "Unpair" ALTO PRO WIRELESS. (3) Repeat steps 1-8.

The maximum operating ambient temperature of the equipment declared by the manufacturer is 35°C.

- RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

➤

Excessive sound pressure from earphones and headphones can cause hearing loss.



Hereby, **inMusic Brands, Inc.** declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.  
For the declaration of conformity, visit the Web site <http://www.inmusicbrands.com/>

**CE 0700**

Notice: Observe the national local regulations in the location where the device is to be used. This device may be restricted for use in some or all member states of the European Union (EU)

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

**NOTE:** 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
- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.