

**SAMSON®**

**auro** Powered Loudspeakers

**D412**  
**D415**



**400 Watt 2-Way Powered Loudspeakers**

**OWNERS MANUAL**

# Safety Instructions/Consignes de sécurité/Sicherheitsvorkehrungen



**WARNING:** To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. To reduce the hazard of electrical shock, do not remove cover or back. No user serviceable parts inside. Please refer all servicing to qualified personnel. The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. 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.

## Important Safety Instructions

1. Please read all instructions before operating the unit.
2. Keep these instructions for future reference.
3. Please heed all safety warnings.
4. Follow manufacturers instructions.
5. Do not use this unit near water or moisture.
6. Clean only with a damp cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers 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 third prong is provided for your safety. When the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on and pinched particularly at plugs, convenience receptacles and at the point at which they exit from the unit.
11. Unplug this unit during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the unit has been damaged in any way, such as power supply cord or plug damage, or if liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

**ATTENTION:** Pour éviter tout risque d'électrocution ou d'incendie, ne pas exposer cet appareil à la pluie ou à l'humidité. Pour éviter tout risque d'électrocution, ne pas ôter le couvercle ou le dos du boîtier. Cet appareil ne contient aucune pièce remplaçable par l'utilisateur. Confiez toutes les réparations à un personnel qualifié. Le signe avec un éclair dans un triangle prévient l'utilisateur de la présence d'une tension dangereuse et non isolée dans l'appareil. Cette tension constitue un risque d'électrocution. Le signe avec un point d'exclamation dans un triangle prévient l'utilisateur d'instructions importantes relatives à l'utilisation et à la maintenance du produit.

## Consignes de sécurité importantes

1. Veuillez lire toutes les instructions avant d'utiliser l'appareil.
2. Conserver ces instructions pour toute lecture ultérieure.
3. Lisez avec attention toutes les consignes de sécurité.
4. Suivez les instructions du fabricant.
5. Ne pas utiliser cet appareil près d'une source liquide ou dans un lieu humide.
6. Nettoyez l'appareil uniquement avec un tissu humide.
7. Veillez à ne pas obstruer les fentes prévues pour la ventilation de l'appareil. Installez l'appareil selon les instructions du fabricant.
8. Ne pas installer près d'une source de chaleur (radiateurs, etc.) ou de tout équipement susceptible de générer de la chaleur (amplificateurs de puissance par exemple).
9. Ne pas retirer la terre du cordon secteur ou de la prise murale. Les fiches canadiennes avec polarisation (avec une lame plus large) ne doivent pas être modifiées. Si votre prise murale ne correspond pas au modèle fourni, consultez votre électricien.
10. Protégez le cordon secteur contre tous les dommages possibles (pincement, tension, torsion,, etc.). Veillez à ce que le cordon secteur soit libre, en particulier à sa sortie du boîtier.
11. Déconnectez l'appareil du secteur en présence d'orage ou lors de périodes d'inutilisation prolongées.
12. Consultez un service de réparation qualifié pour tout dysfonctionnement (dommage sur le cordon secteur, baisse de performances, exposition à la pluie, projection liquide dans l'appareil, introduction d'un objet dans le boîtier, etc.).

**ACHTUNG:** Um die Gefahr eines Brandes oder Stromschlags zu verringern, sollten Sie dieses Gerät weder Regen noch Feuchtigkeit aussetzen. Um die Gefahr eines Stromschlags zu verringern, sollten Sie weder Deckel noch Rückwand des Geräts entfernen. Im Innern befinden sich keine Teile, die vom Anwender gewartet werden können. Überlassen Sie die Wartung qualifiziertem Fachpersonal. Der Blitz mit Pfeilspitze im gleichseitigen Dreieck soll den Anwender vor nichtisolierter "gefährlicher Spannung" im Geräteinnern warnen. Diese Spannung kann so hoch sein, dass die Gefahr eines Stromschlags besteht. Das Ausrufezeichen im gleichseitigen Dreieck soll den Anwender auf wichtige Bedienungs- und Wartungsanleitungen aufmerksam machen, die im mitgelieferten Informationsmaterial näher beschrieben werden.

## Wichtige Sicherheitsvorkehrungen

1. Lesen Sie alle Anleitungen, bevor Sie das Gerät in Betrieb nehmen.
2. Bewahren Sie diese Anleitungen für den späteren Gebrauch gut auf.
3. Bitte treffen Sie alle beschriebenen Sicherheitsvorkehrungen.
4. Befolgen Sie die Anleitungen des Herstellers.
5. Benutzen Sie das Gerät nicht in der Nähe von Wasser oder Feuchtigkeit.
6. Verwenden Sie zur Reinigung des Geräts nur ein feuchtes Tuch.
7. Blockieren Sie keine Belüftungsöffnungen. Nehmen Sie den Einbau des Geräts nur entsprechend den Anweisungen des Herstellers vor.
8. Bauen Sie das Gerät nicht in der Nähe von Wärmequellen wie Heizkörpern, Wärmeclappen, Öfen oder anderen Geräten (inklusive Verstärkern) ein, die Hitze erzeugen.
9. Setzen Sie die Sicherheitsfunktion des polarisierten oder geerdeten Steckers nicht außer Kraft. Ein polarisierter Stecker hat zwei flache, unterschiedlich breite Pole. Ein geerdeter Stecker hat zwei flache Pole und einen dritten Erdungsstift. Der breitere Pol oder der dritte Stift dient Ihrer Sicherheit. Wenn der vorhandene Stecker nicht in Ihre Steckdose passt, lassen Sie die veraltete Steckdose von einem Elektriker ersetzen.
10. Schützen Sie das Netzkabel dahingehend, dass niemand darüber laufen und es nicht geknickt werden kann. Achten Sie hierbei besonders auf Netzstecker, Mehrfachsteckdosen und den Kabelanschluss am Gerät.
11. Ziehen Sie den Netzstecker des Geräts bei Gewittern oder längeren Betriebspausen aus der Steckdose.
12. Überlassen Sie die Wartung qualifiziertem Fachpersonal. Eine Wartung ist notwendig, wenn das Gerät auf irgendeine Weise, beispielsweise am Kabel oder Netzstecker beschädigt wurde, oder wenn Flüssigkeiten oder Objekte in das Gerät gelangt sind, es Regen oder Feuchtigkeit ausgesetzt war, nicht mehr wie gewohnt betrieben werden kann oder fallen gelassen wurde.

**PRECAUCION:** Para reducir el riesgo de incendios o descargas, no permita que este aparato quede expuesto a la lluvia o la humedad. Para reducir el riesgo de descarga eléctrica, nunca quite la tapa ni el chasis. Dentro del aparato no hay piezas susceptibles de ser reparadas por el usuario. Dirija cualquier reparación al servicio técnico oficial. El símbolo del relámpago dentro del triángulo equilátero pretende advertir al usuario de la presencia de "voltajes peligrosos" no aislados dentro de la carcasa del producto, que pueden ser de la magnitud suficiente como para constituir un riesgo de descarga eléctrica a las personas. El símbolo de exclamación dentro del triángulo equilátero quiere advertirle de la existencia de importantes instrucciones de manejo y mantenimiento (reparaciones) en los documentos que se adjuntan con este aparato.

**Instrucciones importantes de seguridad**

1. Lea todo este manual de instrucciones antes de comenzar a usar la unidad.
2. Conserve estas instrucciones para cualquier consulta en el futuro.
3. Cumpla con todo lo indicado en las precauciones de seguridad.
4. Observe y siga todas las instrucciones del fabricante.
5. Nunca utilice este aparato cerca del agua o en lugares húmedos.
6. Limpie este aparato solo con un trapo suave y ligeramente humedecido.
7. No bloquee ninguna de las aberturas de ventilación. Instale este aparato de acuerdo a las instrucciones del fabricante.
8. No instale este aparato cerca de fuentes de calor como radiadores, calentadores, hornos u otros aparatos (incluyendo amplificadores) que produzcan calor.
9. No anule el sistema de seguridad del enchufe de tipo polarizado o con toma de tierra. Un enchufe polarizado tiene dos bornes, uno más ancho que el otro. Uno con toma de tierra tiene dos bornes normales y un tercero para la conexión a tierra. El borne ancho o el tercero se incluyen como medida de seguridad. Cuando el enchufe no encaje en su salida de corriente, llame a un electricista para que le cambie su salida anticuada.
10. Evite que el cable de corriente quede en una posición en la que pueda ser pisado o aplastado, especialmente en los enchufes, receptáculos y en el punto en el que salen de la unidad.
11. Desconecte de la corriente este aparato durante las tormentas eléctricas o cuando no lo vaya a usar durante un periodo de tiempo largo.
12. Dirija cualquier posible reparación solo al servicio técnico oficial. Deberá hacer que su aparato sea reparado cuando esté dañado de alguna forma, como si el cable de corriente o el enchufe están dañados, o si se han derramado líquidos o se ha introducido algún objeto dentro de la unidad, si esta ha quedado expuesta a la lluvia o la humedad, si no funciona normalmente o si ha caído al suelo.

**ATTENZIONE:** per ridurre il rischio di incendio o di scariche elettriche, non esponete questo apparecchio a pioggia o umidità. Per ridurre il pericolo di scariche elettriche evitate di rimuoverne il coperchio o il pannello posteriore. Non esistono all'interno dell'apparecchio parti la cui regolazione è a cura dell'utente. Per eventuale assistenza, fate riferimento esclusivamente a personale qualificato. Il fulmine con la punta a freccia all'interno di un triangolo equilatero avvisa l'utente della presenza di "tensioni pericolose" non isolate all'interno dell'apparecchio, tali da costituire un possibile rischio di scariche elettriche dannose per le persone. Il punto esclamativo all'interno di un triangolo equilatero avvisa l'utente della presenza di importanti istruzioni di manutenzione (assistenza) nella documentazione che accompagna il prodotto.

**Importanti Istruzioni di Sicurezza**

1. Prima di usare l'apparecchio, vi preghiamo di leggerne per intero le istruzioni.
2. Conservate tali istruzioni per una eventuale consultazione futura.
3. Vi preghiamo di rispettare tutte le istruzioni di sicurezza.
4. Seguite tutte le istruzioni del costruttore.
5. Non usate questo apparecchio vicino ad acqua o umidità.
6. Pulite l'apparecchio esclusivamente con un panno asciutto.
7. Evitate di ostruire una qualsiasi delle aperture di ventilazione. Posizionatelo seguendo le istruzioni del costruttore.
8. Non posizionatelo vicino a sorgenti di calore come radiatori, scambiatori di calore, forni o altri apparecchi (amplificatori compresi) in grado di generare calore.
9. Non disattivate la protezione di sicurezza costituita dalla spina polarizzata o dotata di collegamento a terra. Una spina polarizzata è dotata di due spinotti, uno più piccolo ed uno più grande. Una spina dotata di collegamento a terra è dotata di due spinotti più un terzo spinotto di collegamento a terra. Questo terzo spinotto, eventualmente anche più grande, viene fornito per la vostra sicurezza. Se la spina fornita in dotazione non si adatta alla vostra presa, consultate un elettricista per la sostituzione della presa obsoleta.
10. Proteggete il cavo di alimentazione in modo che non sia possibile camminarci sopra né piegarlo, con particolare attenzione alle prese, ai punti di collegamento e al punto in cui esce dall'apparecchio.
11. Staccate l'apparecchio dalla alimentazione in caso di temporali o tempeste o se non lo usate per un lungo periodo.
12. Per l'assistenza, fate riferimento esclusivamente a personale qualificato. È necessaria l'assistenza se l'apparecchio ha subito un qualsiasi tipo di danno, come danni al cavo o alla spina di alimentazione, nel caso in cui sia stato versato del liquido o siano caduti oggetti al suo interno, sia stato esposto a pioggia o umidità, non funzioni correttamente o sia stato fatto cadere.



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 25 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.

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# Introduction

Thank you for purchasing the Samson Auro professional, powered loudspeaker. The Auro D412 and D415 are compact and powerful speaker cabinets featuring 400 watts of bi-amped onboard power. The Auro D412 and D415, respectively, feature 12" and 15" heavy-duty, long-excursion woofers, as well as 1.34" titanium compression drivers on 1" throat wide dispersion horns. The speaker cabinets provide both XLR and ¼" phone jacks that handle microphone or line level inputs. The XLR Line Output allows you to "daisy-chain" multiple Auro cabinets together to create larger sound reinforcement systems.

For added speaker protection, the Auro D412 and D415 feature dual optical limiters that keep your speaker sounding perfect at any level, and the integrated two-band equalizer allows you to sculpt the mix to your desired sound. Each cabinet's trapezoidal shape allows it to be configured for either front-of-house use, or for operation as a wedge-style monitor. In addition, the compact cabinets can easily be stacked, using the built-in bumpers or can be stand-mounted using the integral 1 3/8" pole-mount receptacles.

Each Auro PA system's durable enclosure is made of high-impact polypropylene with a scuff-resistant textured finish, and include a heavy-grade steel grill, offering excellent protection against wear and tear for truly portable audio. The Auro active monitors are ideal for live music, DJ, lecture, and installed sound applications, or anywhere serious power and superior sound quality are desired.

In these pages, you'll find a detailed itemization of the features of the Auro PA stracsystem, as well as a description of its front and rear panels, step-by-step instructions for its setup and use, and full specifications. You'll also find a warranty card enclosed—please don't forget to fill it out and mail it in so that you can receive online technical support, and so that we can send you updated information about this and other Samson products in the future. Also, be sure to check out our website ([www.samsontech.com](http://www.samsontech.com)) for complete information about our full product line.

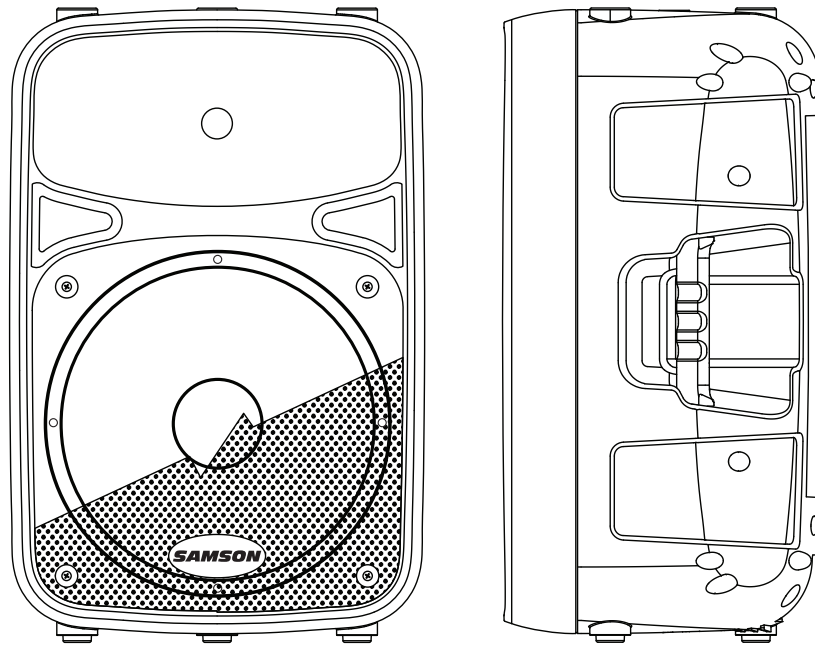
With proper care and adequate air circulation, your Auro cabinet will operate trouble free for many years. We recommend you record your serial number in the space provided below for future reference.

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

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

Should your unit 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 the original carton and packing materials. If you purchased your Samson product outside the United States, please contact your local distributor for warranty and service information.

# Auro D412/D415 Features



Here is a look at some the features of the Auro powered loudspeakers:

- 400 watt, two-way active loudspeakers for live sound applications
- 320W LF + 80W HF power amplifiers (peak)
- Ultra-wide, flat frequency response
- Custom-designed, heavy-duty, 12"/15" long throw low frequency drivers provide enhanced bass response
- 1.34" titanium diaphragm compression driver with 1" throat for smooth high-end reproduction
- Balanced Mic/Line input with Volume control and Peak LED
- Two-band LF and HF shelving equalizer
- XLR Line Output connectors to "daisy-chain" multiple Auro cabinets
- Multi-band dynamics processing with audibly transparent limiting
- Internal 24 dB/octave time aligned electronic crossover
- 30- and 45- degree monitor angles for near and far field coverage
- Standard 1 3/8-inch (35mm) speaker stand receptacle
- Versatile, portable design with integrated side handles
- Tuned, ported bass reflex design for extended low end
- Rugged, lightweight polypropylene cabinet construction

The following steps will help you set up your Auro D412/D415 loudspeakers.

## Setup

1. Turn the Level control on the rear panel fully counterclockwise.
2. Set the Bass and Treble EQ controls to the 12 o'clock position.
3. Turn the Power switch OFF.

## Connections

1. Connect either a line-level signal from your mixer (or other source) or a microphone to the Input jack on the Auro D412/D415 rear panel.
2. Connect the supplied power cable to the IEC socket on the back of the loudspeaker. Plug the power cable into an AC outlet.
3. Note: Always make sure that the AC outlet is configured with the correct voltage as indicated on the rear panel of the Auro loudspeaker.

## Operation

1. Switch the Auro's Power switch to the ON position.
2. Run an audio signal from your mixer, or talk into the microphone.
3. Slowly raise the Auro's Level control until you have reached the desired level.
4. If the volume from the speakers gets really loud, or you see the Peak indicator blinking frequently, turn down the Level control on the Auro D412/D415 a little until the Peak indicator does not light, or only lights occasionally with signal peaks.

# Rear Panel Layout

## 1. XLR Input Connector

This female XLR connector accepts either a balanced microphone or line level signal.

## 2. 1/4" Input Connector

Use this 1/4" input for connecting balanced microphone or balanced and unbalanced line level inputs.

## 3. Line Output

Male XLR connector used to link multiple Auro cabinets.

## 4. Level Control

This control adjusts the overall signal level at the input of the power amplifiers. For attenuating a line level signal, turn the control from fully counter-clockwise until 12 o'clock. For a mic level signal turn the Level control past 12 o'clock.

## 5. Bass EQ Control

This controls the low band of the loudspeaker equalizer, +/- 15 dB at 80 Hz.

## 6. Treble EQ Control

This controls the high band of the loudspeaker equalizer, +/- 15 dB at 12 kHz.

## 7. Peak Indicator

This RED LED lights when the amp is near the clipping point. If the Peak indicator lights frequently, turn down the Level control on the Auro loudspeaker or turn down the signal at the source, until the indicator does not light anymore, or lights occasionally with signal peaks.

## 8. Power Indicator

This LED lights GREEN when amp is active.

## 9. Power Switch

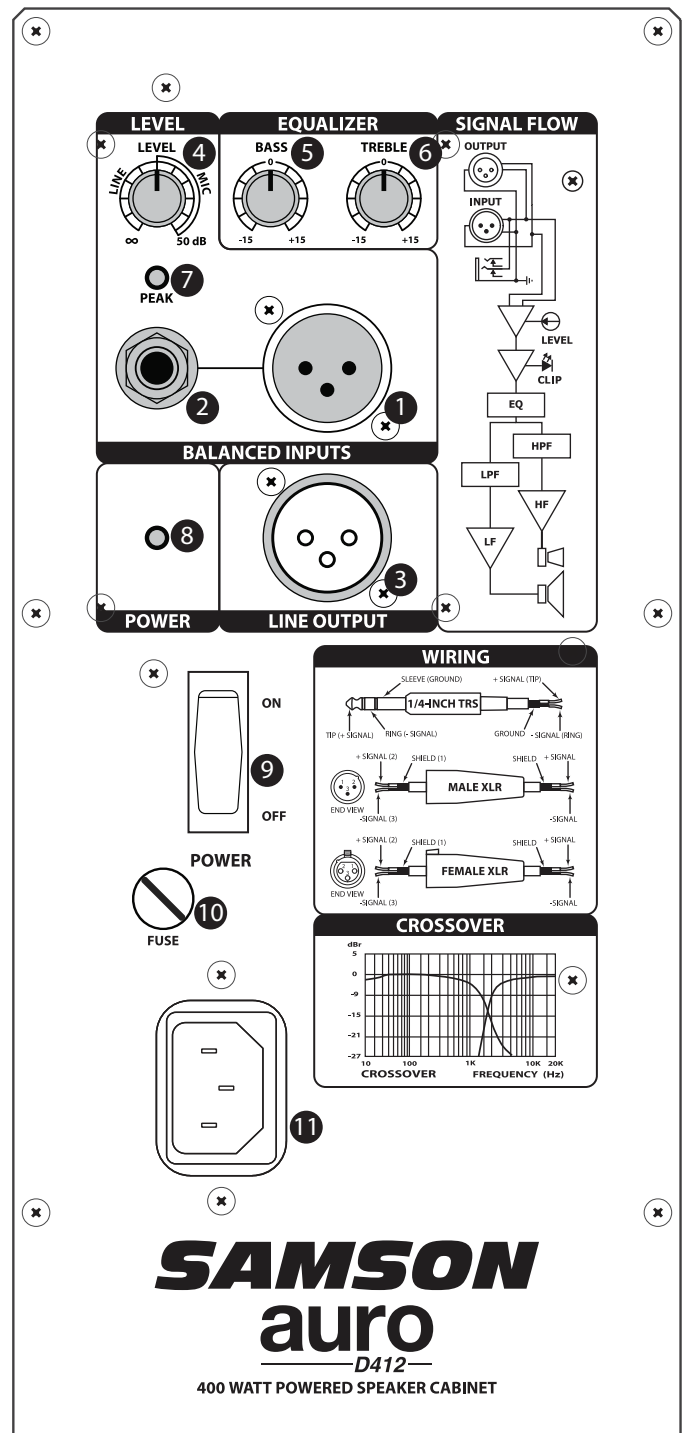
Switches on the Auro's main power.

## 10. Fuse Cover

The fuse is located behind the fuse cover. Always replace fuses with the same type of fuse.

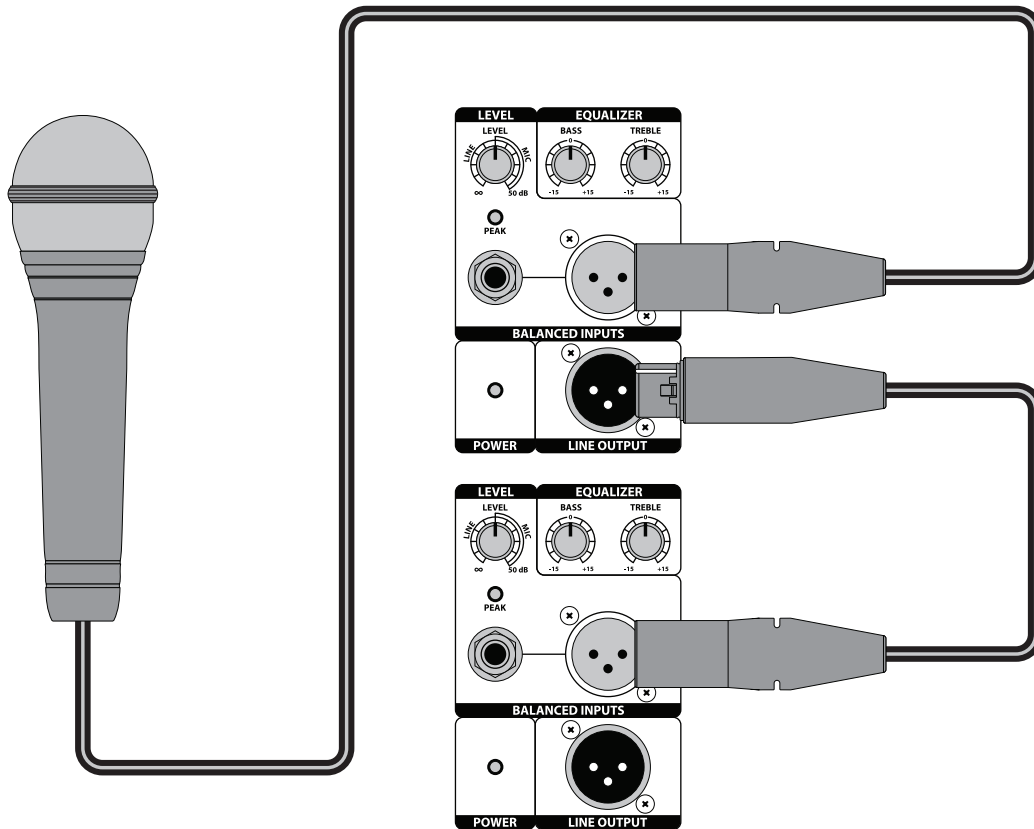
## 11. AC Power Inlet

Connect the supplied standard IEC AC power cable here.





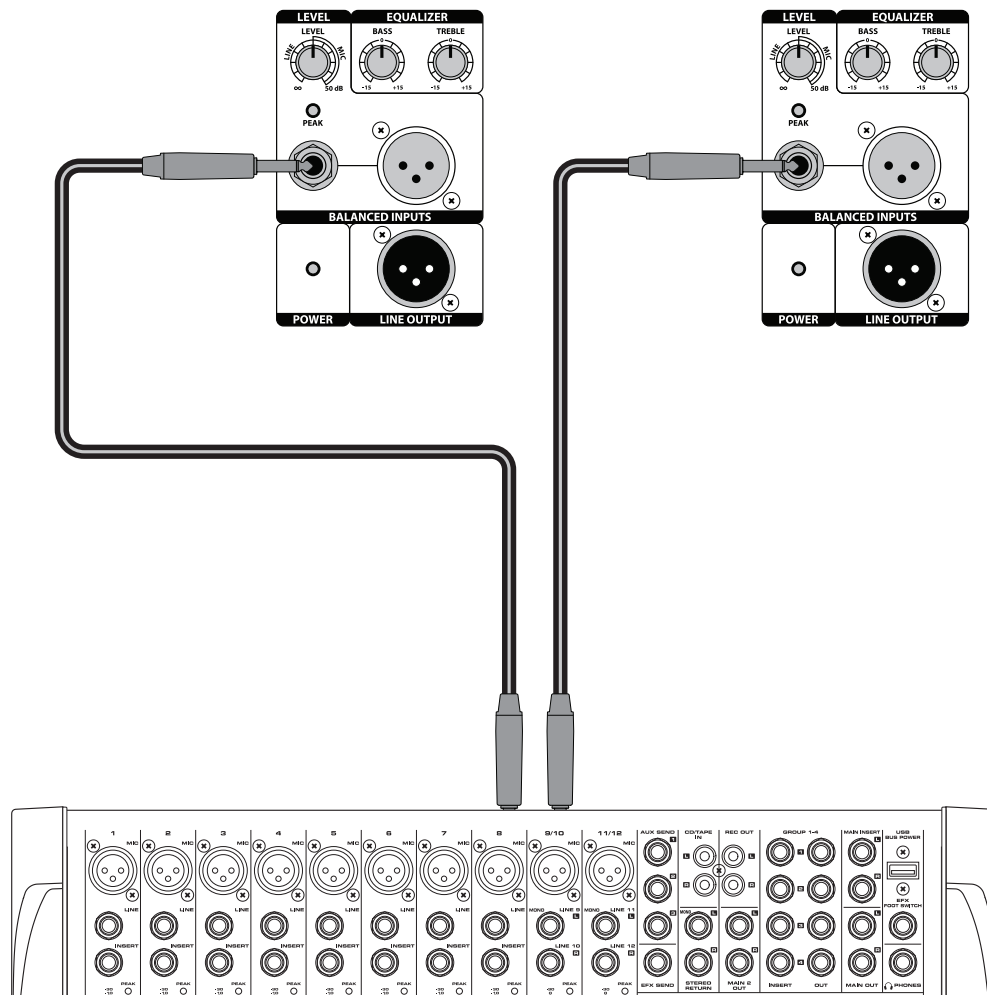
# Connecting a Microphone



## Using a Microphone

- Be sure that the Auro D412/D415 Power switch is set to the off position.
- Turn the LEVEL control fully counterclockwise to the off position.
- Connect the power cable to an AC socket.
- Using a standard XLR cable, plug a microphone into the Auro's XLR INPUT.
- Switch the Power switch to the ON position.
- While speaking or singing into the microphone, slowly raise the LEVEL control until you have reached the desired level.
- For larger sound reinforcement you can run several monitors using the Line Output to daisy-chain one Auro to another.

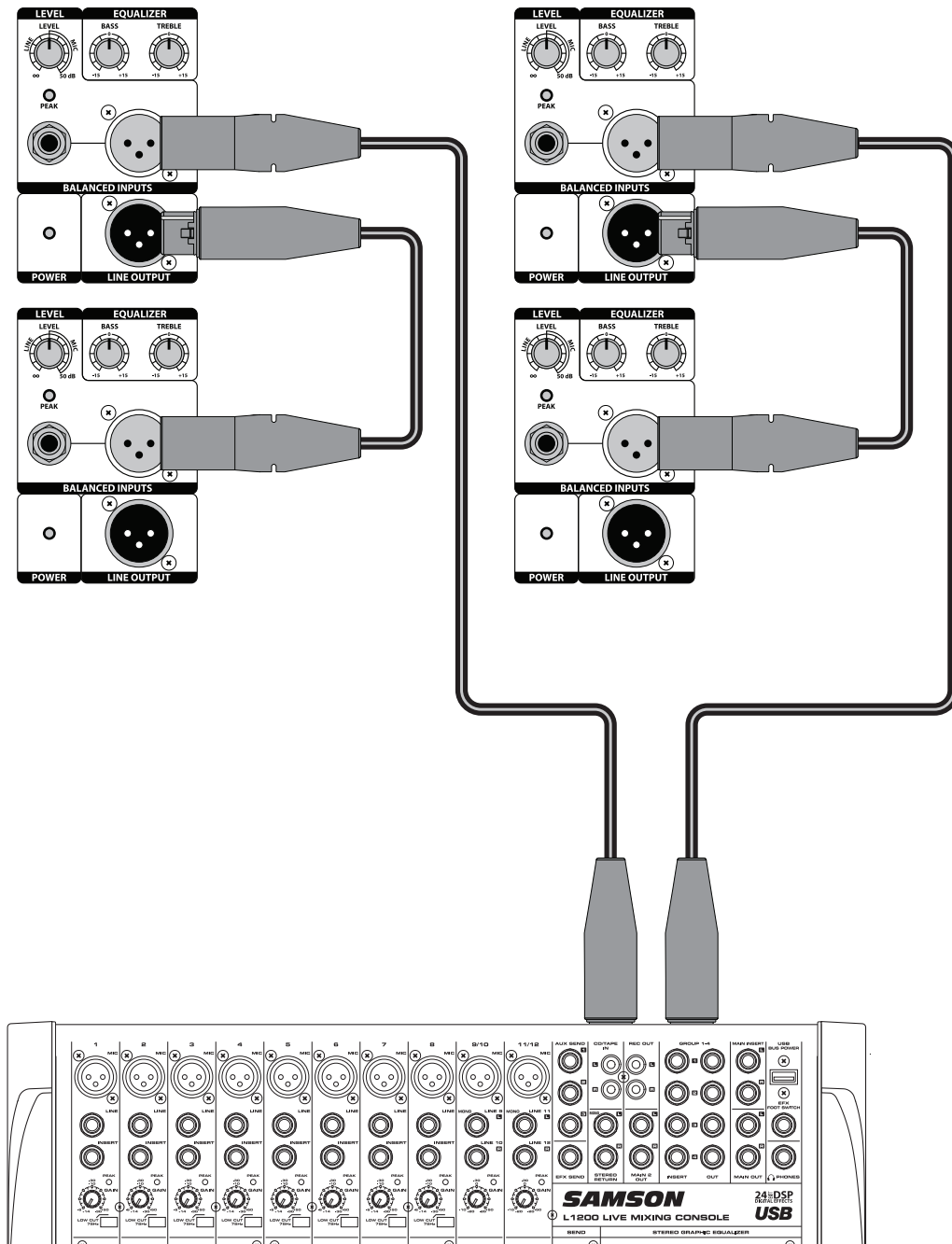
# Connecting a Stereo Signal Source



## Using a Stereo Line Level Signal

- Be sure that the Auro D412/D415 Power switch is set to the off position.
- Turn the LEVEL control fully counterclockwise to the off position.
- Connect the power cable to an AC socket.
- Using standard XLR or 1/4" cables, connect the line level signals from a mixer or keyboard into the Auro Inputs.
- Switch the Power switch to the ON position.
- Now, run an audio signal from your mixer (like music from a CD) while slowly raising the Auro's Level control until you have reached the desired level.

# Linking Two Speakers Per Side



Linking two Auro cabinets per side:

- Turn the LEVEL control fully counterclockwise to the off position.
- Connect the left and right line-level outputs from a mixer to the inputs of two Auro loudspeakers.
- Feed the Line Outputs to another pair of Auro loudspeaker inputs.
- Now, run an audio signal from your mixer (like music from a CD) while slowly raising the Auro's Level control until you have reached the desired level.

# Positioning the Auro D412/D415

## Speaker Placement

Whenever possible, it is a good idea to raise the speakers above the heads of the listening audience. The Auro enclosures feature standard 1 3/8" pole mount receptacles with locking bolts, which are compatible with speaker stands from a variety of manufacturers. In a smaller setting like a school cafeteria, library, or a mall kiosk, you can also use the Auro loudspeaker in one of the tilt back monitor positions, which will improve the projection of the speakers and may eliminate the need for speaker stands.

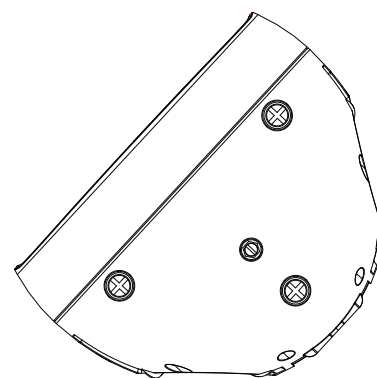
Note: When using a speaker pole mount, be sure the pole is capable of supporting the weight of the Auro loudspeaker.

Note: Always have another person to assist when mounting the Auro speaker onto a speaker stand, or when adjusting the stand while the speaker is mounted on the stand.



## Using the Auro D412/D415 as a Floor Monitor

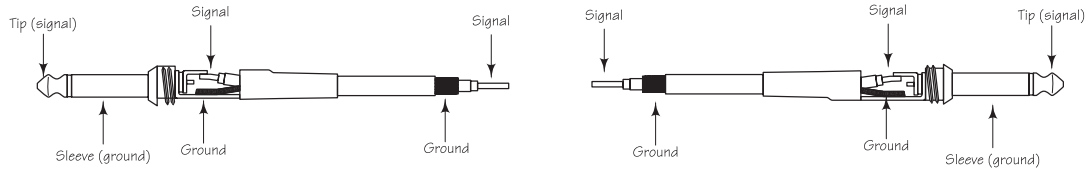
The Auro D412/D415 is an ideal solution for stage monitoring and thanks to its unique design, two wedge monitor positions are possible. When placed on its side, with the high frequency horn facing to the left of the enclosure, the Auro is tilted at a 30 degree angle, optimizing performance when used on a large stage. When placed on its side with the high frequency horn facing to the right of the enclosure, the Auro is tilted at a 45 degree angle optimizing performance when used on smaller stages.



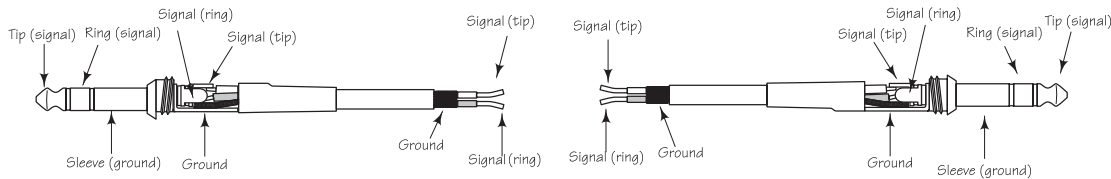
# Connections

The Auro D412/D415 features balanced inputs and outputs, so connecting balanced and unbalanced signals is acceptable. Whenever possible, use balanced connections to other equipment to suppress interference.

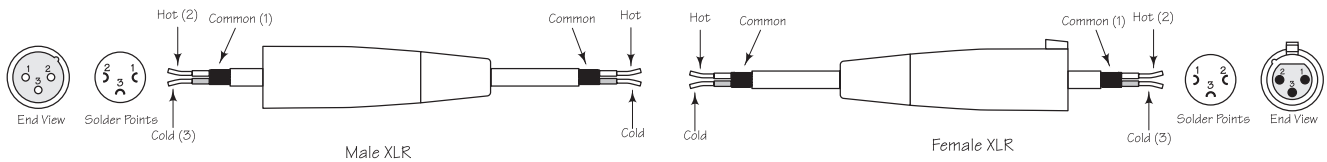
## Unbalanced 1/4" Connector



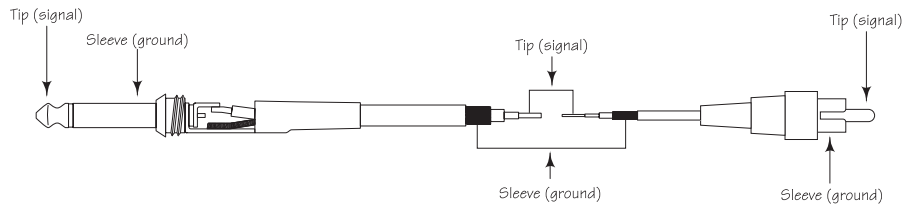
## Balanced TRS 1/4" Connector



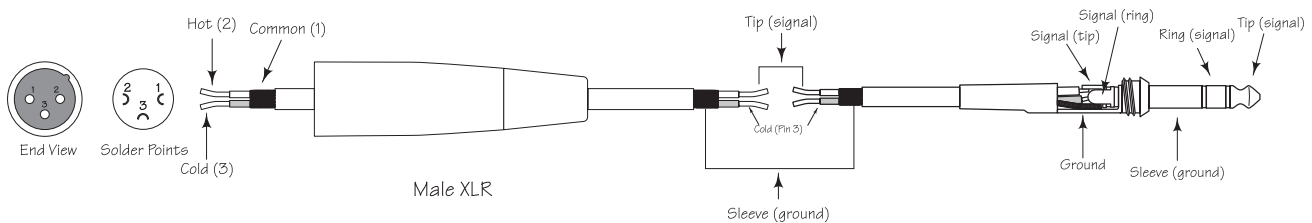
## XLR to XLR Balanced



## Unbalanced 1/4" Connector to RCA



## XLR to Balanced 1/4-Inch

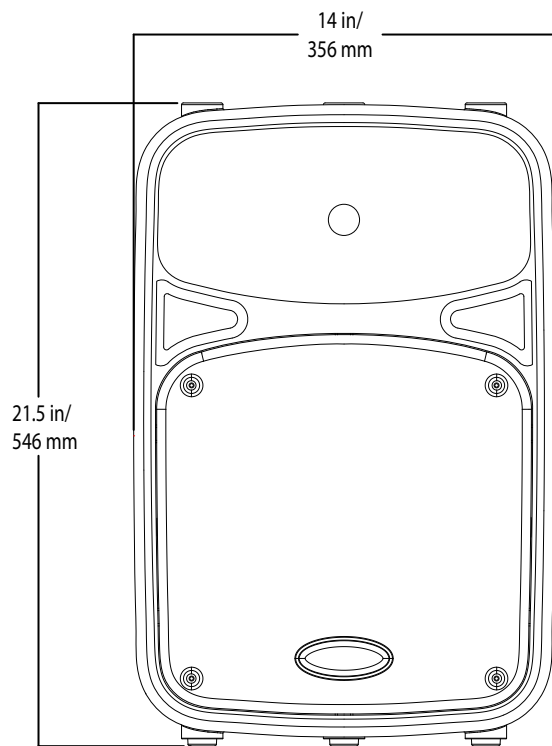
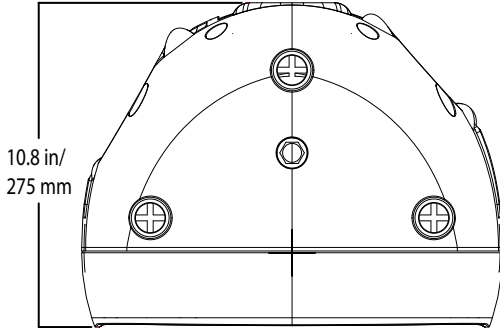


# Specifications

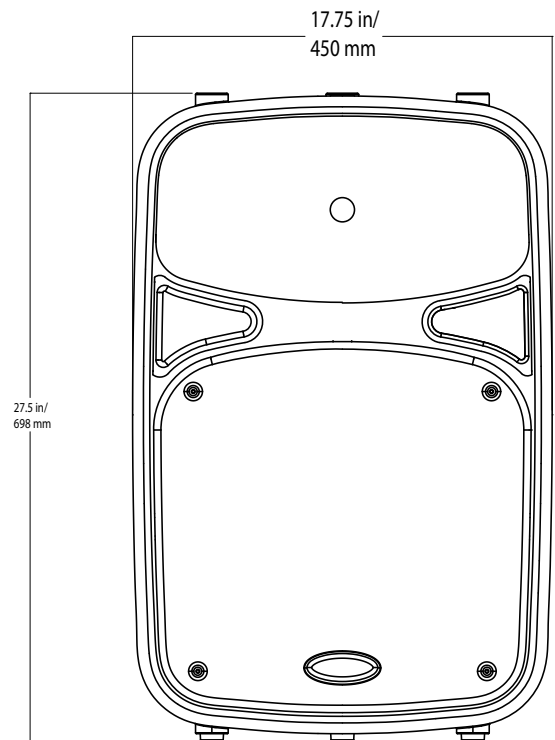
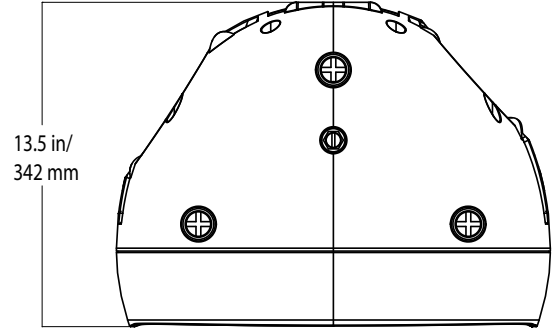
		D412	D415
<b>Output Power</b>			
Low Frequency	RMS Power	200 W @ 8 ohms	
	Peak Power	320 W @ 8 ohms	
	THD	< 1 %	
High Frequency	RMS Power	50 W @ 8 ohms	
	Peak Power	80 W @ 8 ohms	
	THD	< 1 %	
<b>Transducers</b>			
Low Frequency	12" bass transducer, 2.5" voice coil		15" bass transducer, 3" voice coil
High Frequency	1.34" (34 mm) titanium compression driver, edge-wound copper voice coil		
<b>Acoustic Performance</b>			
Frequency Response (-3 dB)	58 Hz to 20 kHz		55 Hz to 20 kHz
Maximum Sound Pressure Level	125 dB SPL @ 1		124 dB SPL @ 1 m
Limiter	Optical		
Horizontal Coverage Angle	90°		
Vertical Coverage Angle	60°		
<b>Electronic Crossover</b>			
Crossover Type	24 dB/oct Linkwitz-Riley		
Crossover Frequency	2.1 kHz		
<b>Input/Output</b>			
Inputs	Balanced XLR & 1/4" Mic/Line Connectors		
Output	Balanced XLR Line Output		
<b>Equalization</b>			
High	±15 dB @ 12 kHz, shelving		
Low	±15 dB @ 80 Hz, shelving		
<b>Power Supply</b>			
Power Consumption	456 W max.		
AC Connector	3-pin IEC 250 VAC, 20 A male		
Fuse	100 - 115 VAC T5AL / 250 V		
	220 - 240 VAC T2.5AL / 250 V		
<b>Dimensions and Weight</b>			
Dimensions	in	14" L x 10.8" W x 21.5" H	17.75" L x 13.5" W x 27.5" H
	mm	356 mm L x 275 mm W x 546 mm H	450 mm L x 342 mm W x 698 mm H
Weight	lbs	35.8	49
	kg	16.25	22.25
<b>Mounting</b>			
Mounting Method	Integral 1 3/8" Pole Mount Receptacle		
Fly Point	1		

*Specifications are subject to change without notice.*

## D412



## D415



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