

Atomic<sup>®</sup> PRO

# XL12 & XL15 Active Speakers



## XL12 & XL15 Instruction Manual



CAUTION - ATTENTION - VORSICHT

RISK OF ELECTRIC SHOCK- DO NOT OPEN  
RISQUE D'ELECTROCUTION - NE PAS OUVRIR  
STROMSCHLAGGEFAHR - NICHT OFFNEN



In Compliance with the following directives: RoHS Directive (2002/95/EU) and  
WEEE directive (2002/96/EU)  
If this product is no longer functional or reached the end of its usable life, please  
take it to an approved recycling plant.



# User Manual XL12 & XL15

Dear Customer,

Thank you for purchasing this Atomic XL active speaker. With decades of experience in design and production, Atomic is one of the leading manufacturers of professional audio equipment.

This unit has been designed and manufactured to the highest of standards so you can be assured you have made a good investment.

For your safety and to ensure you make full use of all the features, please make sure you read this manual in full.

## **Product Description:**

A powerful active speaker with a built in 800-Watt RMS class D lightweight amplifier. A simple mixer section makes this speaker easy to use. The user can connect to any suitable mixer or similar device via an XLR or ¼" jack cable or connect a microphone straight in. There are two mixer channels these are on XLR/¼" jack combi sockets. There is also a XLR link output, this can either send a mix of channel 1 and 2 or just channel 2. Any Bluetooth enabled device can be paired with this speaker, making a totally wireless connection. The easy to use DSP pre-sets help adjust the sound to suit different applications. Custom loudspeaker drivers have been used, giving perfect playback for music and live vocals.

## **Safety Advice:**

- Read this manual in full before operating this product.
- Keep this manual in a safe place for future reference.
- Heed all warnings and instructions, both in this manual and on the product.
- Carry and transport this product with care. Dropping this product may result in serious mechanical failure.
- The manufacturer accepts no responsibility for injury or damage caused as a result of not following the manual provided.
- Turn off this active speaker when not in use.
- This speaker is not waterproof and should not be used outside or in wet conditions.
- In the event of any liquid entering the housing, unplug immediately & contact a qualified engineer.
- Do not attempt to modify this unit.
- Always install the unit in a suitable location where no injury can occur from the speaker falling.
- Check this unit matches the mains voltage and frequency before plugging it in to your mains socket.
- Should you experience any malfunction or damage to the mains cable, disconnect from the mains supply immediately and consult a qualified engineer or replace the cable with a new one.
- All parts should be replaced with genuine spare parts and repairs carried out by a qualified engineer.
- Do not place near sources of heat or ignition.
- Check your AC wall socket will take the power you are applying to avoid overloading the mains supply.
- No naked flame i.e. candle should be placed on top of this appliance

## **Protection from Electric Shock:**

- Only connect this unit to a mains socket with suitable trip and RCD protection.
- To disconnect from the mains socket, always remove by the mains plug or IEC connector. Do not attempt to remove by pulling the mains cable.
- Disconnect the unit from the mains supply before cleaning. Cleaning should be carried out with a soft, dry cloth.
- Do not expose this unit to any liquids.
- Do not operate near exposed water or in high humidity.

- Choose a suitable route for mains cables and audio cables, ensuring trip hazards are avoided and any cables are not at risk of being crushed.
- Do not open this unit to service. There are no user serviceable parts inside. Any servicing or repairs should be carried out by a qualified engineer only. Any attempt to service or adapt this unit will leave your warranty void and could result in serious malfunction or injury.
- When the power switch is off, this unit is not completely disconnected from the mains.

### Contents & Unpacking:

Before beginning your initial setup check the unit has not been damaged in transit. In the event there is damage to the housing, cable or internal components contact your dealer immediately.

- XL Active speaker
- User Manual
- Power Lead

### Specification

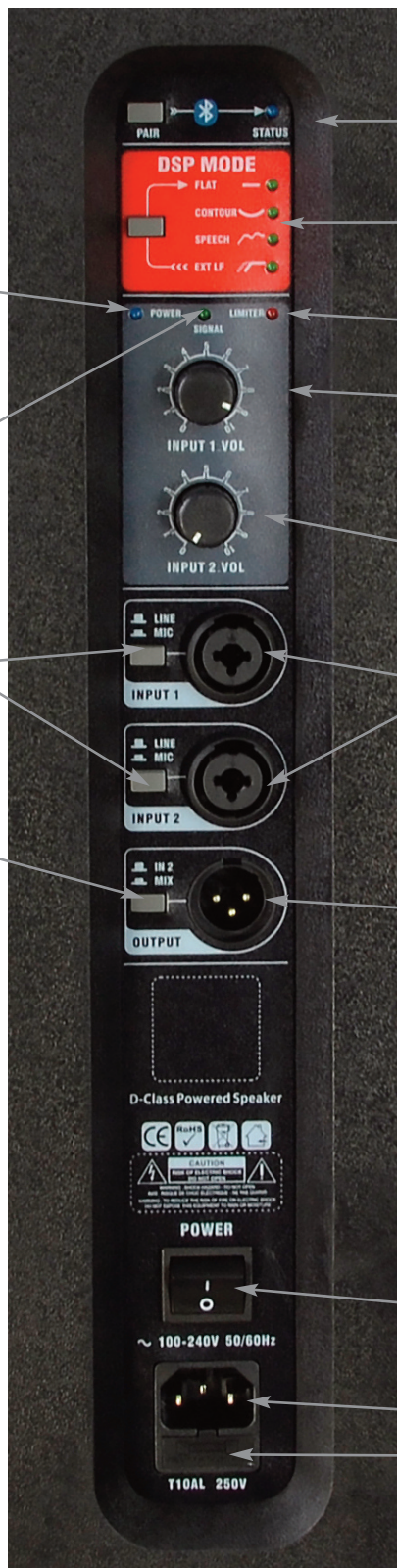
Model	XL-12	XL-15
Power Watts RMS	800	800
Response	45Hz-20KHz	45Hz-20KHz
Bass Driver	12"/ 3" Voice Coil	15"/ 3" Voice Coil
High Driver	2" Voice Coil	2" Voice Coil
Amplifier Class	D	D
SPL	126dB / 136dB(Peak)	128dB / 138dB(Peak)
Dimensions	435 x 425 x 670mm	505 x 455 x 770mm
Weight	21.5 Kg	24.5 Kg

### Features

This unit is radio interference suppressed. This appliance meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

Features Include:

- 800 Watt Class D amplifier
- Two Channel Mixer Section
- Tough ABS housing
- Custom Designed Bass Drivers
- Bluetooth Connectivity
- 4 Mode DSP
- Balanced XLR/Jack Combined Input Connections
- XLR Link Output



## Functions Back Panel

### 1 Bluetooth Pairing:

- Press and hold the pair button until status LED flashes fast and a beep can be heard from the speaker.
- Look on your Bluetooth device for the name BP1712A16 or BP1715A16, then connect to the one of these that is listed.
- Once paired the status LED will stay on and the speaker will beep
- Hold the pair button down to unpair, the speaker will beep and the status LED does not light up.
- When paired and audio is playing the status LED will flash slowly.
- Bluetooth will work up to about 10 metres away. This can vary due to conditions and brands of Bluetooth devices.
- Volume is controlled via the connected device.

### 2 DSP Mode:

- Press the button to move through the 4 DSP pre-sets

**Flat:** The frequency response is unchanged, so whatever is input to the speaker, is then reproduced from the speaker drivers.

**Contour:** Has two functions, it will slightly increase the bass and high frequencies when the levels are low and will also reduce some frequencies that are too high, when music is played loudly.

**Speech:** This mode boosts the frequencies associated with speech whilst reducing the frequencies that are not.

**EST LF:** Use this mode if this speaker is connected to an active subwoofer. In this mode the low frequencies up to 100HZ are cut from this speaker.

**3 Power LED:** This lights when there is power to the cabinet and the speaker is turned on.

**4 Signal LED:** This lights when a signal is detected on inputs 1 & 2.

**5 Limiter LED:** This lights up if distortion is detected. It is best to reduce your volumes if this LED stays illuminated.

**6 Volume 1:** Controls the input level of input socket one.

**7 Volume 2:** Controls the input level of input socket two.

**8 MIC/LINE Switch:** Use the MIC switch, pressed, when a microphone is connected. Use the LINE depressed when connected to a mixer or line level source.

**9 Microphone or line level inputs:** Accepts either an XLR or a ¼ inch jack. The input can receive balanced or unbalanced signals.

**10 IN2/MIX Switch:** When pressed "MIX" is selected. The output XLR will receive the mixed signal from inputs 1 and 2. When released IN2 is selected, the output XLR receives a signal from input 2 only. This is useful for true stereo imagery. A stereo signal is connected, left to input 1 and right to input 2. Then the signal from input 2 can be sent to another speaker via the XLR output.

**11 XLR Output socket:** A balanced signal can be sent from here to connect to similar active speakers or active subwoofers.

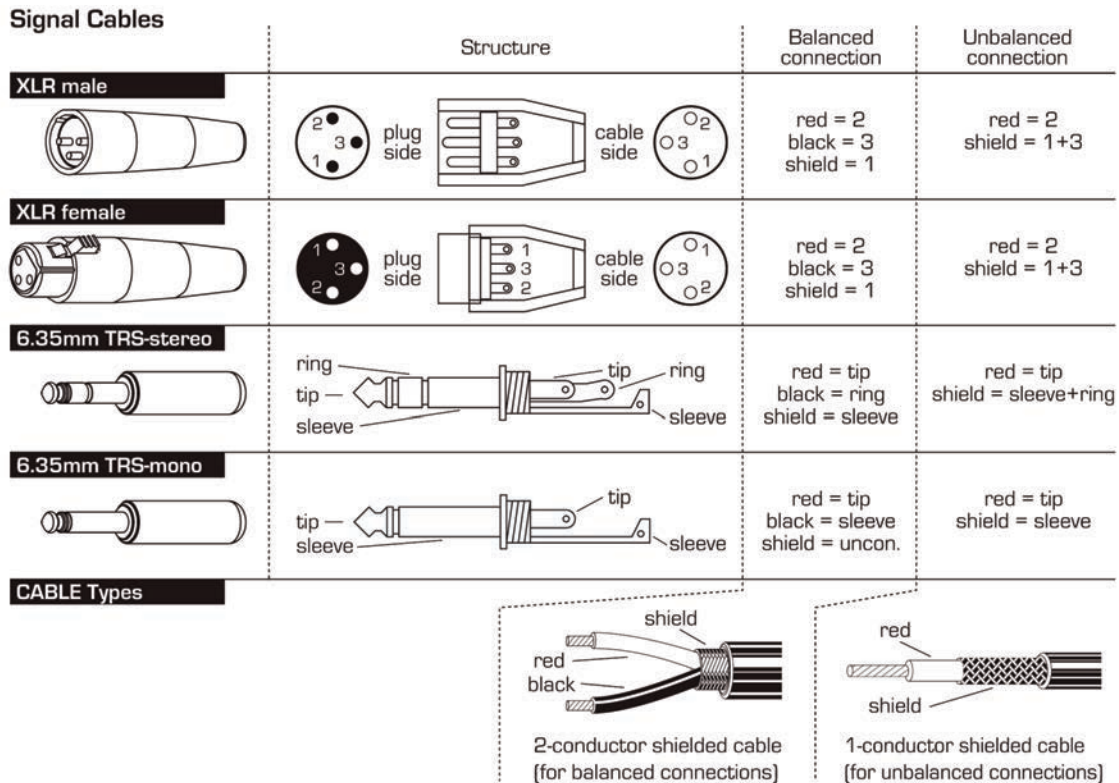
**12 ON/OFF Switch:** Used to turn the active speaker on and off.

**13 Mains Inlet:** Used to connect power lead. IEC type, use the correct thickness cable and fuse.

**14 Fuse Holder:** Replace once with the correct size. If the fuse blows again consult where you purchased the active speaker from or a qualified engineer.

## Input Connections

Always use a good quality screened cable. Make sure soldering has been done correctly, bad solder joints can cause damaged or intermittent faults to occur. Try to always use balanced connection, if this is not possible try to keep unbalanced cables as short as possible. See the connector wiring chart below when wiring connectors.

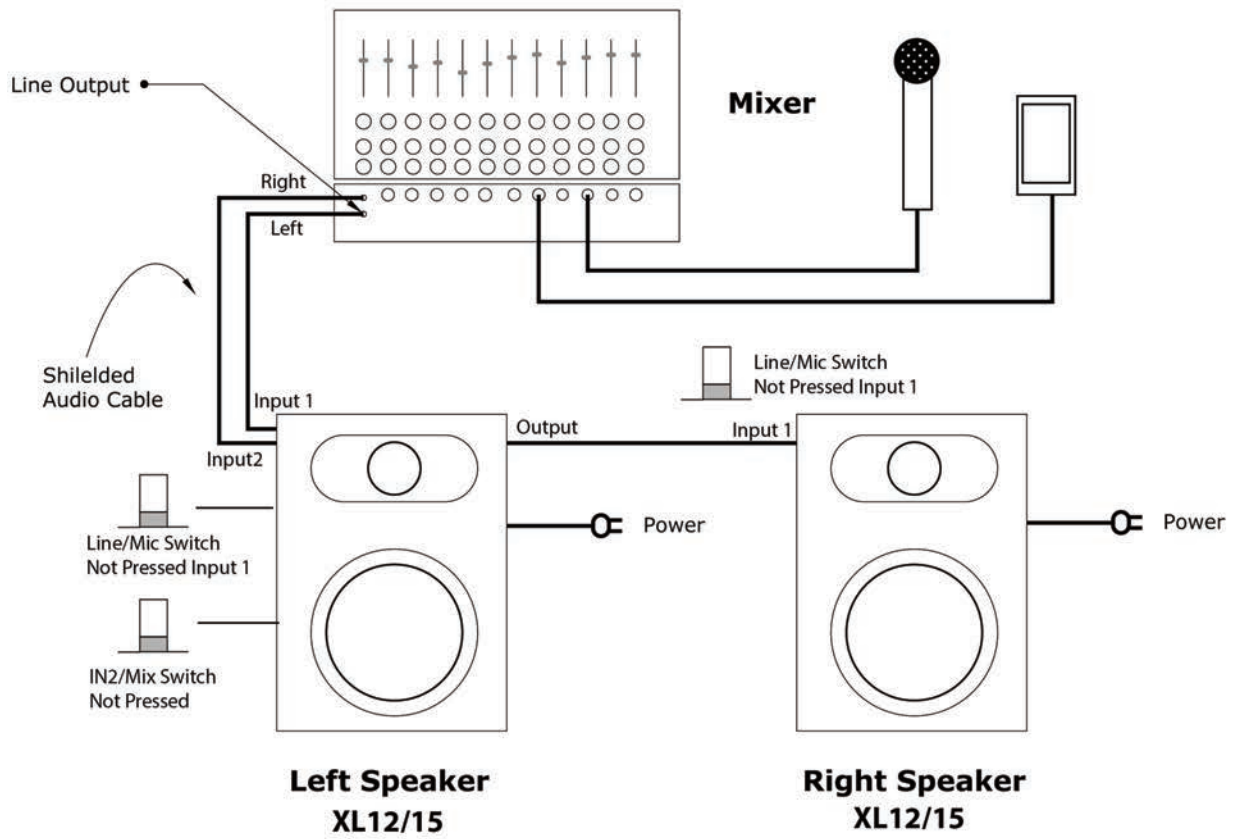


## Powering Up For The First Time

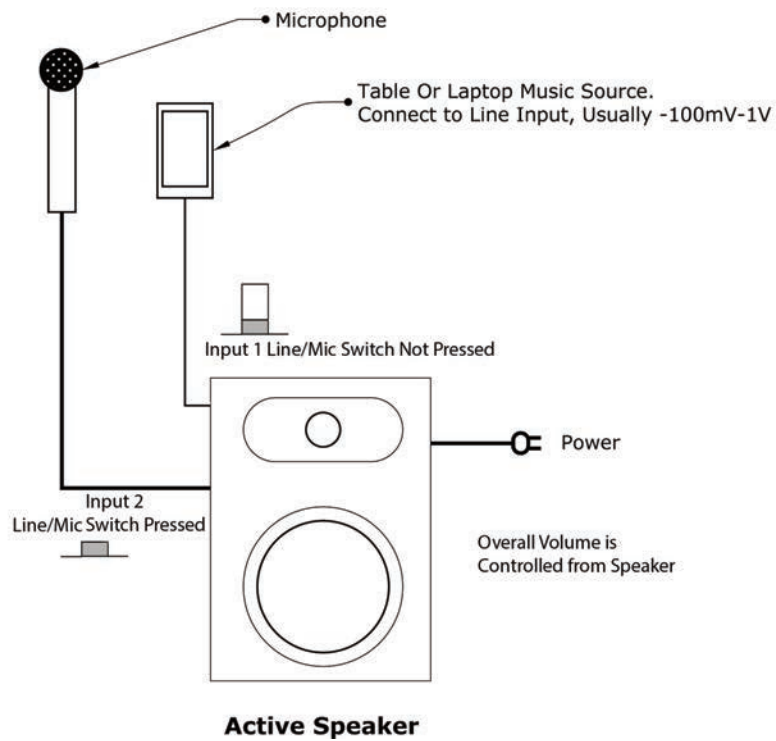
- Turn down all volumes.
- Switch on your audio devices ie tablet, CD player, tuner, PC.
- Switch on your mixer.
- Switch on any processors between mixer and active speaker.
- Switch on the active speaker.
- Turn up slightly the audio source volume, then mixer volume, then processor volume.
- Turn up the active speaker volume slowly.
- Make any adjustments to the volume settings.
- Do the reverse of this when powering down.

It is best to turn the active speakers volumes up to max or almost maximum, when using a separate mixer, or any device with volume controls. If connecting devices straight to the active speaker, use the active speaker volumes. Remember to try and avoid distortion and do not over drive any of the equipment. Always try and keep mixer gains as low as possible and do not turn the input gain on a mixer down and then turn the main master output to maximum to achieve the correct levels, as you may also be amplifying unwanted signal noise.

### XL12/XL15 Active Speaker & Mixer Combination



### XL12/XL15 Active Speaker With Built-in Mixer Section



### XL12/XL15 System with Sub Bass Cabinets and Mixer

