



# MYOS SERIES





# 1 - Safety information

## Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.

## Symbols used



This symbol signals an important safety precaution.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.



The CAUTION symbol signals a risk of product deterioration.

## Instructions and recommendations

### 1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

### 2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

### 3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

### 4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

### 5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

### 6 - Installation :

We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

### 7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

### 8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk. Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

### 9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

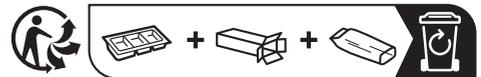
**WARNING :** This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.  
In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.

**Sound levels**

Our audio solutions deliver important sound pressure levels (SPL) that can be harmful to human health when exposed during long periods. Please do not stay in close proximity of operating speakers.

**Recycling your device**

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



### 10 - Electric power supply :

This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

### 11 - Power cords protection:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

### 12 - Cleaning precautions :

Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

### 13 - Long periods of non use :

Disconnect the unit's main power during long periods of non use.

### 14 - Liquids or objects penetration :

Do not let any object penetrate this product as it may result in electric shock or fire. Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

### 15 - This product should be serviced when :

- Please contact the qualified service personnel if :
- The power cord or the plug has been damaged.
  - Objects have fallen or liquid has been spilled into the appliance.
  - The appliance has been exposed to rain or water.
  - The product does not appear to operate normally.
  - The product has been damaged.

### 16 - Inspection/maintenance :

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

### 17 - Operating environment :

Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).  
Do not operate this product in a non-ventilated, very humid or warm place.

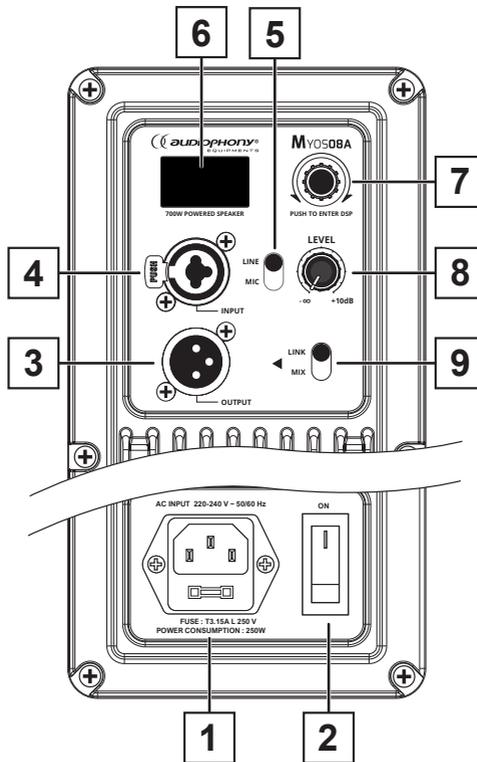
## 2 - Introduction

The Myos Series speakers and subwoofers are the ideal solution for your live performances. With 700W for the Myos10A and Myos12A, 1000W for the Myos12A and Myos15A and 1000W for the Myos15ASub and for the Myos18ASub subwoofer, the Myos series products deliver a powerful, clear and warm sound, suitable for both voice and live or recorded music. All equipped with an adjustable DSP, the elements of this series allow you to tune the sound reproduction in an ideal way whatever the configurations of your performances. Fast installation, lightweight and space-saving, they will quickly become the partners of your nomadic services, without compromising quality, power or possibilities.

## 3 - Technical information of the full range speakers

	Myos08A	Myos10A	Myos12A	Myos15A
Bi-amplification	350W RMS Class D for LF 350W RMS Class D for HF		500W RMS Class D for LF 500W RMS Class AB for HF	
Total power output	700W RMS / 1400W Max		1000W RMS / 2000W Max	
Frequency response	70 Hz - 20 KHz	60 Hz - 20 KHz	50 Hz - 20 KHz	45 Hz - 20 KHz
Power supply	220-240V AC 50 Hz switched mode SMPS			
H x V dispersion	54° x 71° (10 KHz)	51° x 74° (10 KHz)	90° x 60° (10 KHz)	
Filter cut-off frequency	1.6 KHz	1.6 KHz	1.75 KHz	1.75 KHz
Sound Pressure Level	124 dB max.	126 dB max.	128 dB max.	129 dB max.
Woofers	8 " 1.5 " coil Magnet 33 Oz 4 Ohms - 250W AES	10 " 2 " coil Magnet 40 Oz 4 Ohms - 350W AES	12 " 2.5 " coil Magnet 60 Oz 4 Ohms - 350W AES	15 " 2.5 " coil Magnet 60 Oz 4 Ohms - 350W AES
Tweeter	1.35 " compression 8 Ohms 50W AES			
Inputs	1 MIC/LINE input on COMBO XLR/JACK with MIC/LINE switch		1 MIC/LINE input on COMBO XLR/JACK with MIC/LINE switch / 1 line input on XLR	
Output	1 line output on XLR with LINK/MIX switch			
Settings	Input volume Multiple settings DSP (refer to paragraph 6 for more details)			
Protection	Against short circuits, thermal and limiter			
Construction and fastenings	15mm plywood reinforced cabinet with asymmetrical shape and cut edges for feedback position Polyurea textured paint for anti-scratch Integral metal grill LED Power/Clip in front 1 wooden handle on top 10 M8 inserts Double 36 mm base (0° and 7.5°) for stand 4 rubber pads on bottom	15mm plywood reinforced cabinet with asymmetrical shape and cut edges for feedback position Polyurea textured paint for anti-scratch Integral metal grill LED Power/Clip in front 1 metal handle on the side 12 M8 inserts Double 36 mm base (0° and 7.5°) for stand 4 rubber pads on bottom	15mm plywood reinforced cabinet with asymmetrical shape and cut edges for feedback position Polyurea textured paint for anti-scratch Integral metal grill LED Power/Clip in front 2 metal handle on the side 12 M10 inserts Double 36 mm base (0° and 7.5°) for stand 4 rubber pads on bottom	
Dimensions (h x l x d)	465 x 249 x 240 mm	560 x 309 x 305 mm	627 x 360 x 330 mm	730 x 439 x 420 mm
Net weight	11 Kg	16 Kg	22.5 Kg	28 Kg

## 4 - Myos08A and Myos10A power amp module



### 1 Power input socket

Allows you to connect the speaker to an electrical outlet. Use the supplied IEC cord, and make sure the voltage delivered by the outlet is in adequation with the value indicated by the IEC connector before turning on the built-in amplifier.

### 2 Power switch

Allows you to turn ON/OFF the built-in amplifier.

### 3 XLR LINE OUTPUT socket

Allows you to retrieve the sum of each incoming signal and transmit it to another amplified speaker, mixing desk, or speaker/amplifier system.

### 4 MIC/LINE input via COMBO plug

The COMBO plug allows you to connect either a male XLR plug or male stereo/mono Jack plug.

### 5 LINE/MIC Selector

Allows you to adapt the impedance of the socket to the type of signal detected.

### 6 Integrated DSP display

Displays the settings of the built-in DSP. The different settings of the DSP will be explained in paragraph 6.

### 7 DSP settings button

Press this button to access the available settings or to enter the different submenus. Then turn this knob to scroll through the values of each sub-menu. Press again to confirm your settings.

### 8 Channel input level

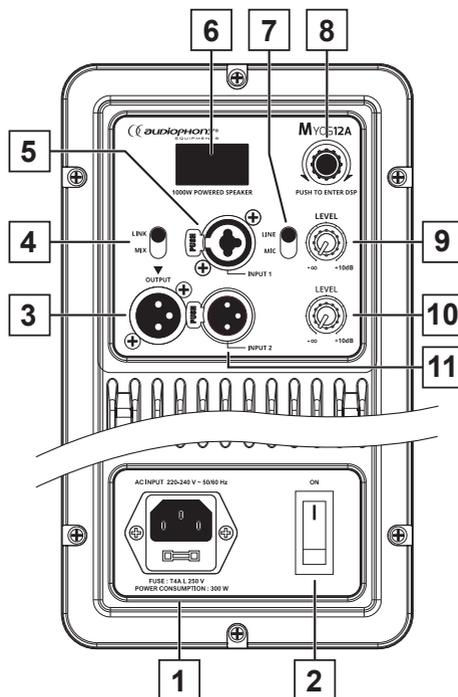
Make sure that the input level is not too high to avoid distorted sound.

### 9 LINK / MIX switch

**LINK** : The signal at the input is sent directly to the output.

**MIX**: The signal present at the input is sent to the output and its level depends on the LEVEL setting.

## 5 - Myos12A and MYOS15A power amp module



### 1 Power input socket

Allows you to connect the speaker to an electrical outlet. Use the supplied IEC cord, and make sure the voltage delivered by the outlet is in adequation with the value indicated by the IEC connector before turning on the built-in amplifier.

### 2 Power switch

Allows you to turn ON/OFF the built-in amplifier.

### 3 XLR LINE OUT socket

Allows you to retrieve the sum of each incoming signal and transmit it to another amplified speaker, mixing desk, or speaker/amplifier system.

### 4 LINK / MIX switch

**LINK** : The signal at the input is sent directly to the output.

**MIX**: The signal present at all the inputs is sent to the output and its level depends on the LEVEL setting.

### 5 MIC/LINE input via COMBO plug

The COMBO plug allows you to connect either a male XLR plug or male stereo/mono Jack plug.

### 6 Integrated DSP display

Displays the settings of the built-in DSP.

The different settings of the DSP will be explained in paragraph 6.

### 7 LINE/MIC Selector

Allows you to adapt the impedance of the socket to the type of signal detected.

### 8 DSP settings button

Press this button to access the available settings or to enter the different submenus.

Then turn this knob to scroll through the values of each sub-menu.

Press again to confirm your settings.

### 9 Channel 1 input level

Make sure that the input level is not too high to avoid distorted sound.

### 10 Channel 2 input level

Make sure that the input level is not too high to avoid distorted sound.

### 11 LINE input via XLR plug

## 6 - Full range speaker menu

### MENUS

### MENU OPTION

#### MODE menu

This menu is used to select one of the preset :

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
MODE   LOCATION   TREBLE   B	

Normal  
Live  
Club  
Speech

Push to Save and Return

- **NORMAL** : The equalisation is flat (default value).
- **LIVE** : The bass is attenuated and the treble is raised to obtain a "concert" sound.
- **CLUB** : The bass is slightly raised and the treble slightly attenuated to obtain a warmer sound.
- **SPEECH** : The bass is very attenuated, the midrange is slightly raised and the treble is not modified to obtain a more intelligible sound by the human ear.

#### LOCATION menu

This menu allows you to choose the behavior of the speaker according to how it is positioned.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
E   LOCATION   TREBLE   B	

Pole  
Monitor  
Bracket

Push to Save and Return

- **POLE** : Choose this option when using the speaker on a stand (default setting).
- **MONITOR** : Choose this option when using the speaker as a stage return.
- **BRACKET** : Choose this option when the speaker is mounted on a wall mount.

#### TREBLE menu

This menu is used to adjust the treble level. Values range from -10dB to +10dB.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
<   TION   TREBLE   BASS   LED >	

+6dB

Push to Save and Return

#### BASS menu

This menu is used to adjust the bass level. Values range from -10dB to +10dB.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
ON   TREBLE   BASS   LED   FFP >	

+8dB

Push to Save and Return

#### LED menu

This menu is used to adjust the behaviour of the LED on the front panel.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
<   TREBLE   BASS   LED   HPF   RE >	

Front Panel LED  
is always  
"Black Out"

OFF  
ON  
LIMIT

Push to Save and Return

- OFF** : The LED never lights up.
- ON** : LED is constantly lit in blue.
- LIMIT** : The LED lights blue and red when the limiter is switched on.

#### HPF menu

This menu allows you to set the cutoff frequency of the high pass filter. OFF is the default value.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
<   TREBLE   BASS   LED   HPF   RE >	

HPF OFF  
HPF 80Hz  
HPF 100Hz  
HPF 120Hz

Push to Save and Return

#### RESET menu

This menu is used to reset all settings to the original values.

NORMAL	HF:0dB
POLE	LF:0dB
<b>MYOS10A</b>	
B   LE   BASS   LED   HPF   RESET >	

Are you sure ?  
Restore the device  
to the factory  
default settings

YES  
NO

Push to Save and Return

## INFO menu

NORMAL	HF:0dB	<b>MYos10A</b> Firmware Ver 1.0.0
POLE	LF:0dB	
<b>MYos10A</b>		
◀BASS LED HPF RESET INFO▶		Push to Return

This menu is used to display the internal software version.

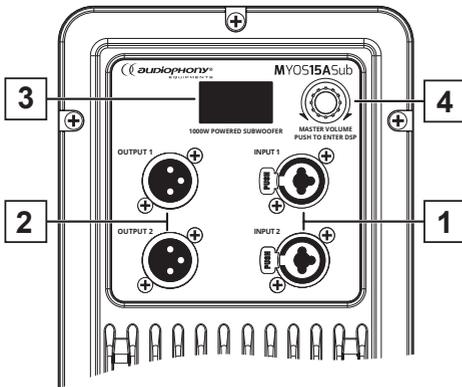
### Myos08A/10A/12A/15A input setting

- 1 - Connect the loudspeaker to the mains via IEC plug / 2-pin + earth. Leave the power switch (2) in the OFF position.
- 2 - Set all LEVEL potentiometers (7, 8 or 9) to the  $-\infty$  position.
- 3 - Connect your microphone or line level source or both. The line input can be accessed via a 3-pin 6.35 mm (TRS) jack, RCA LINE IN or AUX input. To access the microphone preamplifier, use the XRL plug
- 4 - Switch on the line level source.
- 5 - Switch on the ATOM speaker.
- 6 - While you are speaking in a microphone or an audio signal is being played from your line-level source, turn the input level knob (s) until the display shows "Limit Signal", then turn it down just below that level.
- 7 - If you use a microphone, be careful not to stand too close to the speaker as this may result in feedback. If you do not use both inputs, it is recommended that you leave the level knob on the unused input at the  $-\infty$  position to prevent noise from entering the signal circuit.

## 7 - Technical information of the subwoofer

	Myos15ASub	Myos18ASub
Amplification	Class D / 1000W RMS / 2000W max	
Frequency response	40 Hz - 150 Hz	35 Hz - 150 Hz
Power supply	SMPS / 220-240V AC ~ 50Hz	
SPL	134 dB max.	135 dB max.
Woofer	15" 4" coil / Magnet 125 Oz 8 Ohms - 600W AES	18" 4" coil / Magnet 125 Oz 8 Ohms - 600W AES
Inputs	2 x COMBO 6.35 Jack / XLR	
Outputs	2 XLR output	
Settings	Multiple settings DSP (refer to paragraph 9 for more details)	
Protection	Short-circuit, thermal and limiter	
Construction and hangings	15mm plywood reinforced cabinet with band pass system Polyurea anti-scratch textured paint Metal grill LED Power/Clip in front 2 metallic handles on the sides / Inserts for 4 optional wheels at the back 1 x 36mm base on top for coupling bar / 4 rubber pads on the bottom	
Dimensions	650 x 445 x 750 mm	731 x 510 x 850 mm
Net weight	32 Kg	38 Kg

## 8 - Subwoofer power amp module



### 2 Input 1 and 2

Line-level left and right inputs via COMBO sockets. COMBO sockets allow you to either connect a mono/ stereo male XLR or male Jack plug. These are balanced inputs.

### 1 Output 1 and 2

These line level outputs are used to retrieve the input signals and re-inject them to another amplification system (see OUTPUT menu on page 8). Output 1 corresponds to input 1 and output 2 corresponds to input 2.

### 3 Integrated DSP display

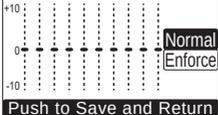
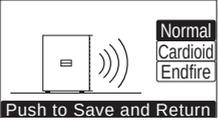
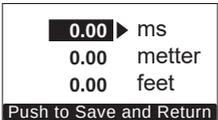
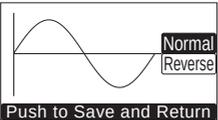
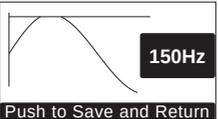
Displays the settings of the built-in DSP. The different settings of the DSP will be explained in paragraph 9.

### 4 DSP settings button

Without pressing this button, you adjust the subwoofer level. Press this button to access the available settings or to enter the different submenus. Then turn this knob to scroll through the values of each sub-menu. Press again to confirm your settings.

*Note : The power input and power button are the same as on the full range speakers.*

## 9 - Subwoofers DSP Menu

MENUS	MENU OPTION				
<p><b>LEVEL menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>NONE</td></tr> </table> <p><b>Myos15ASub</b></p> <p><input type="text" value="0"/> dB</p>	NORMAL	150 Hz	NORMAL	NONE	<p>This menu appears when the subwoofer is initialized and allows you to adjust the subwoofer's amplification level. It is not necessary to press the button to make this setting. The value varies from MUTE (no amplification) to +10dB.</p>
NORMAL	150 Hz				
NORMAL	NONE				
<p><b>MODE menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>NONE</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀MODE LOCATION DELAY▶</p>  <p>Push to Save and Return</p>	NORMAL	150 Hz	NORMAL	NONE	<p>This menu allows you to choose the behavior of the cabinet according to how it is positioned.</p> <ul style="list-style-type: none"> <li>-<b>NORMAL</b> : Choose this option when using the subwoofer in front of the sound system.</li> <li>-<b>ENFORCE</b> : Choose this option when using the subwoofer to enforce existing sound system.</li> </ul>
NORMAL	150 Hz				
NORMAL	NONE				
<p><b>LOCATION menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>HF:0dB</td></tr> <tr><td>POLE</td><td>LF:0dB</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀DE LOCATION DELAY PD▶</p>  <p>Push to Save and Return</p>	NORMAL	HF:0dB	POLE	LF:0dB	<p>This menu allows you to optimize the response of ATOM15S and ATOM18S when used alone or in groups. See page 21.</p> <ul style="list-style-type: none"> <li>-<b>NORMAL</b> : Choose this option when using the subwoofer in nongroup mode.</li> <li>-<b>CARDIOID</b> : Choose this option for a cardioid effect with the subwoofer in grouped mode.</li> <li>-<b>ENDFIRE</b> : Choose this option when using two subwoofers in longitudinal radiation one behind the other.</li> </ul>
NORMAL	HF:0dB				
POLE	LF:0dB				
<p><b>DELAY menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>NONE</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀TION DELAY POLARITY X▶</p>  <p>Push to Save and Return</p>	NORMAL	150 Hz	NORMAL	NONE	<p>This menu allows you to add a delay time to the subwoofer to align it over time. The value of the delay is expressed in ms, metres and feet. By default no delay time is applied.</p>
NORMAL	150 Hz				
NORMAL	NONE				
<p><b>POLARITY menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>0.25 m</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀DELAY POLARITY X-O▶</p>  <p>Push to Save and Return</p>	NORMAL	150 Hz	NORMAL	0.25 m	<p>This menu allows you to reverse the polarity of the sum of the signals present at the input..</p>
NORMAL	150 Hz				
NORMAL	0.25 m				
<p><b>X-OVER menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>0.25 m</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀LARITY X-OVER RESET▶</p>  <p>Push to Save and Return</p>	NORMAL	150 Hz	NORMAL	0.25 m	<p>This menu is used to set the upper limit of the frequency range of the subwoofer. The optimum setting is the minimum value of the frequency range correctly reproduced by the full range speakers. Among the available values for this setting you will find 60/80/100/120/150Hz.</p>
NORMAL	150 Hz				
NORMAL	0.25 m				
<p><b>RESET menu</b></p> <table border="1"> <tr><td>NORMAL</td><td>150 Hz</td></tr> <tr><td>NORMAL</td><td>0.25 m</td></tr> </table> <p><b>Myos15ASub</b></p> <p>◀ X-OVER RESET INFO EXI▶</p> <p>Are you sure ? Restore the device to the factory default settings</p> <p>YES NO</p> <p>Push to Save and Return</p>	NORMAL	150 Hz	NORMAL	0.25 m	<p>This menu is used to reset all settings to the original values.</p>
NORMAL	150 Hz				
NORMAL	0.25 m				

**INFO menu**

NORMAL	150 Hz
NORMAL	0.25 m
<b>Myos15ASub</b>	
◀X-OVER RESET INFO EXIT▶	

<b>Myos15ASub</b>	
Firmware Ver 1.0.0	
Push to Return	

This menu is used to display the internal software version.

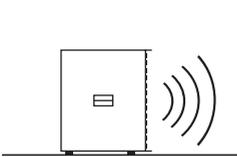
**EXIT menu**

NORMAL	150 Hz
NORMAL	0.25 m
<b>Myos15ASub</b>	
◀OVER RESET INFO EXIT▶	

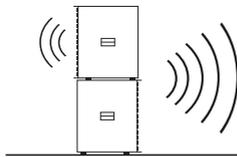
NORMAL	150 Hz
NORMAL	NONE
<b>Myos15ASub</b>	
0 dB	

This menu allows you to return to the main display

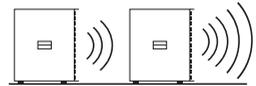
**Different positions of the LOCATION menu**



**Normal**

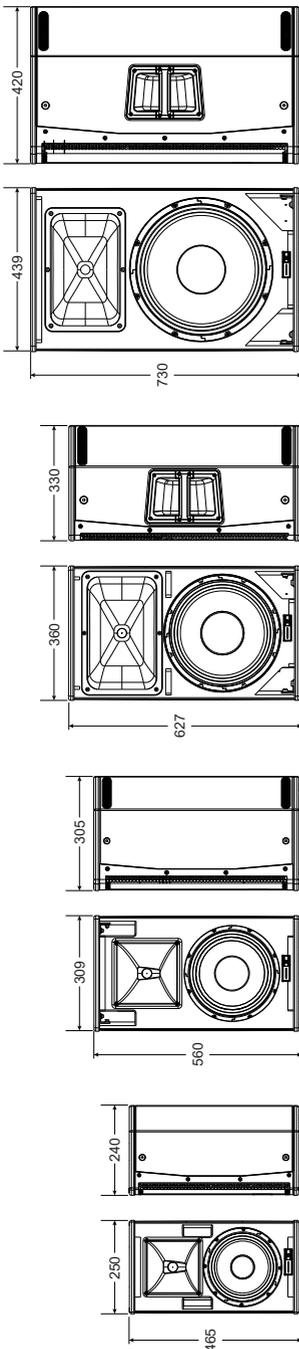


**Cardioid**



**Endfire**

# 10 - Dimensions

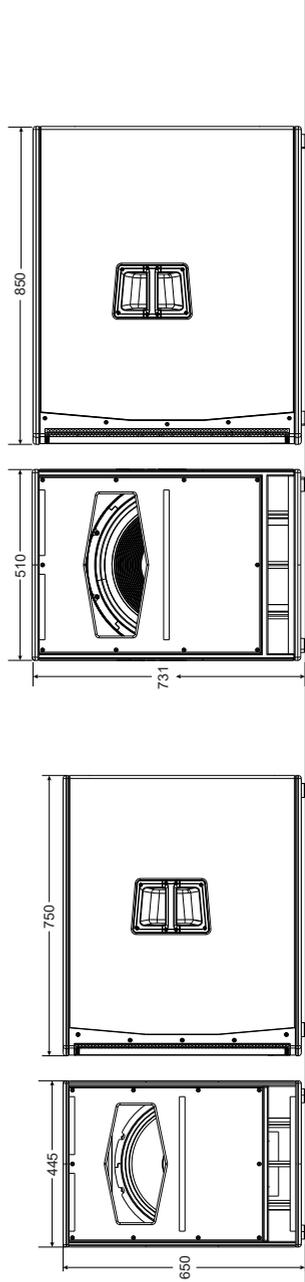


MYos15A

MYos12A

MYos10A

MYos08A

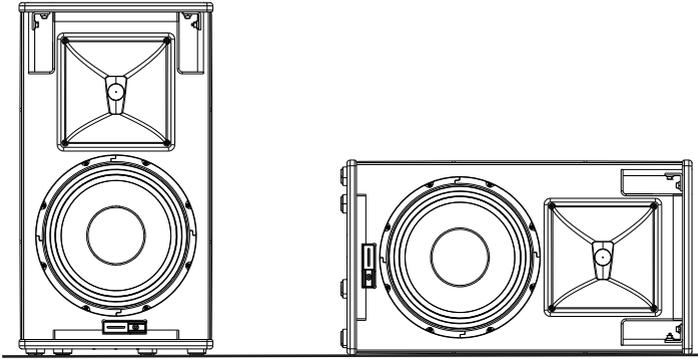


MYos18ASub

MYos15ASub

## 11 - Horn rotation (Myos008A and Myos10A)

The horn of the Myos08A and Myos10A can be rotated by 90° to maintain dispersion. This option is very useful when the speaker is used as a stage monitor or in a horizontal installation.



Horn in its original position when the speaker is used vertically.

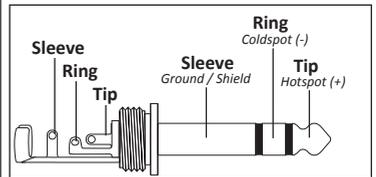
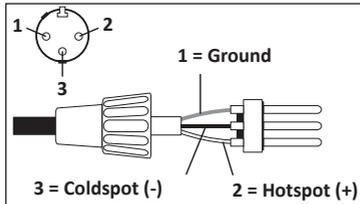
Horn turned 90° when the speaker is placed horizontally.

## 12 - Connectors

### 12.1 - Balanced

The COMBO sockets are symmetrical. This type of connectors allows you to transmit a signal over long runs of cables without altering its quality, that is why we recommend to use symmetrical signals.

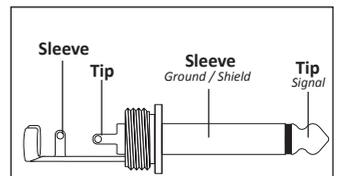
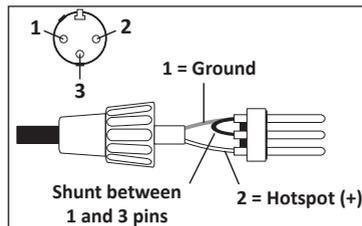
The figures opposite describe the balanced wiring of the XLR or Jack 6.35 plugs.



### 12.2 - Unbalanced

If you do not have any source with symmetrical signal, please do not use cables longer than 1.5 m.

The figures opposite describe the unbalanced wiring of the XLR or Jack 6.35 plugs.



Because AUDIOPHONY® takes the utmost care in its products to make sure you only get the best possible quality, our products are subjects to modifications without prior notice. That is why technical specifications and the products physical configuration might differ from the illustrations.

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