

# AIR SERIES

User Manual



## Systems

AIR-62  
AIR-82  
AIR-122  
AIR-152  
AIR-210

# Contents

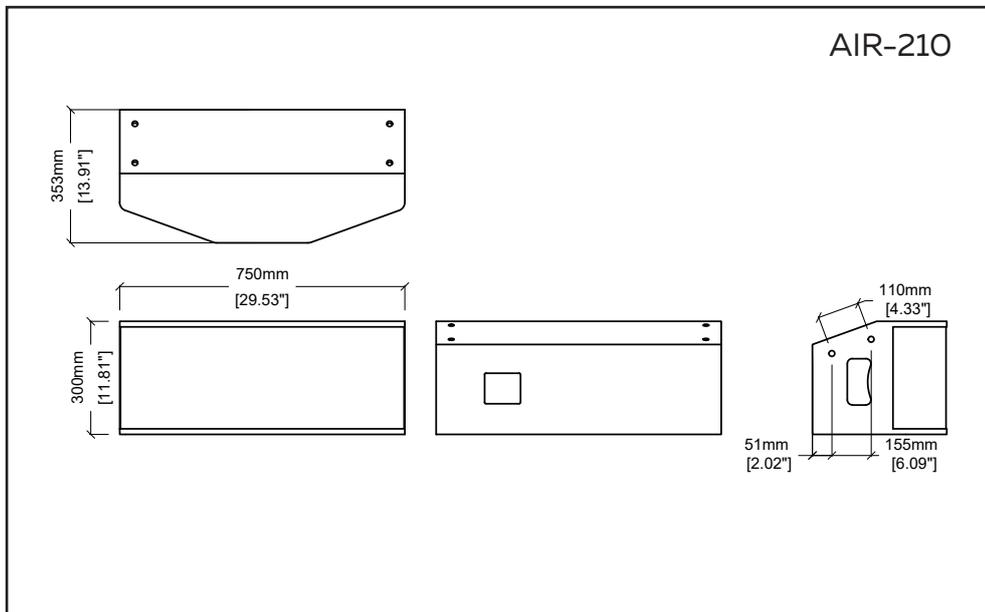
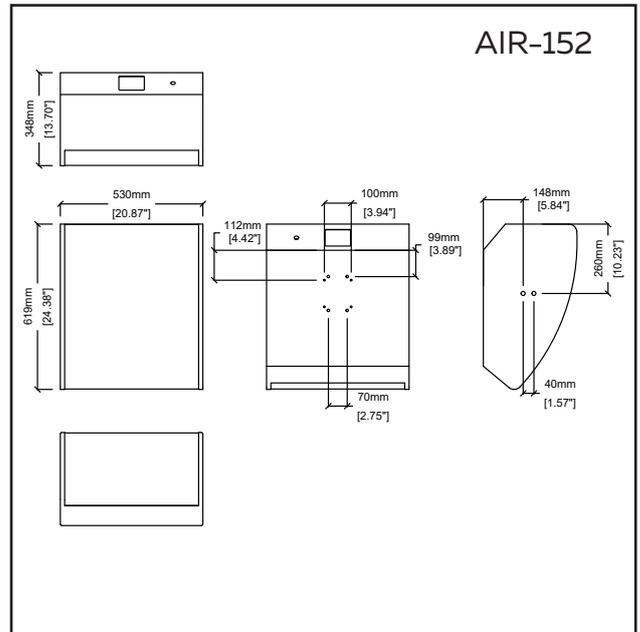
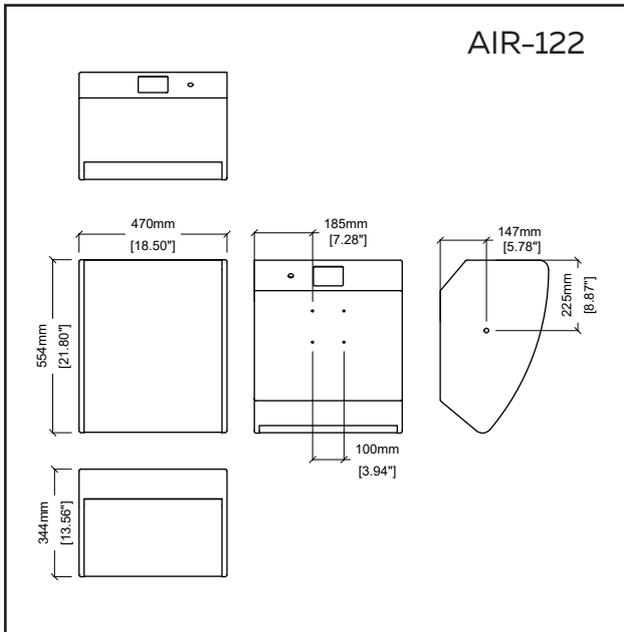
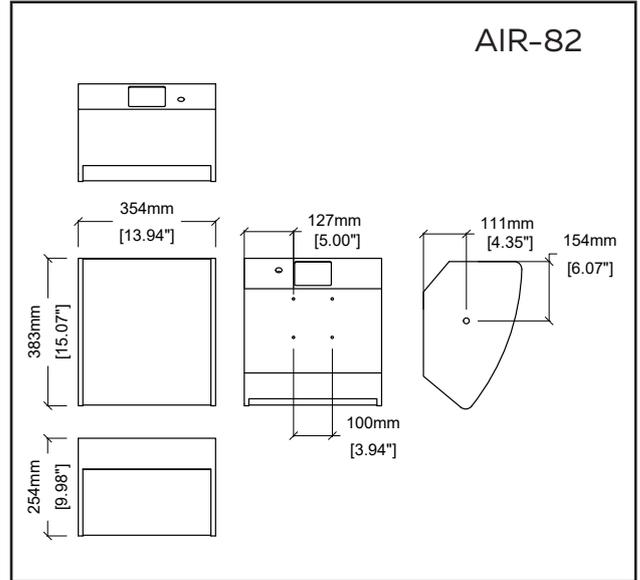
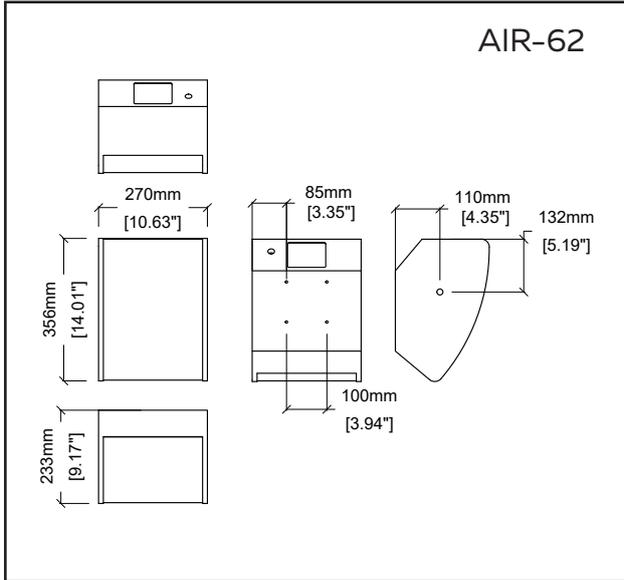


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# Panel A. Dimensions



# 1. Safety instructions



## EXPLANATIONS OF GRAPHICAL SYMBOLS

 The triangle with the lightning bolt is used to alert the user to the risk of electric shock.

 The triangle with the exclamation point is used to alert the user to important operating or maintenance instructions.

 The CE-mark indicates the compliance with the low voltage and electromagnetic compatibility.

 Symbol for earth/ground connection.

 Symbol indicating that the equipment is for indoor use only.

 Symbol for conformity with Directive 2002/96/EC and Directive 2003/108/EC of the European Parliament on waste electrical and electronic equipment (WEEE).

 **WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT ATTEMPT TO OPEN ANY PART OF THE UNIT. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

 **TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.**

 **THE MAINS PLUG OF THE POWER SUPPLY CORD MUST REMAIN READILY ACCESSIBLE.**

 **DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE, DRIPPING OR SPLASHING LIQUIDS. OBJECTS FILLED WITH LIQUIDES, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.**

 **CONNECTIONS TO THE MAINS SHALL BE DONE ONLY BY AN ELECTROTECHNICALLY SKILLED PERSON ACCORDING TO THE NATIONAL REQUIREMENTS OF THE COUNTRIES WHERE THE UNIT IS SOLD.**

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions carefully.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this equipment 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 use near heat sources such as stoves, heat registers, radiators or other equipment (including amplifiers) that produces heat.
9. Do not use the unit near open fire sources.
10. Connect the unit only to the electric network with grounding. Use only electric plugs that provide grounding.
11. Protect the power cord from being walked on, pinched, or otherwise damaged.
12. Use only accessories specified by the manufacturer.
13. Unplug this unit during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the system 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 unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS SYSTEM UNIT TO RAIN OR MOISTURE.**

THIS UNIT CONTAINS POTENTIALLY LETHAL VOLTAGES. TO PREVENT ELECTRIC SHOCK OR HAZARD, DO NOT REMOVE THE AMPLIFIER MODULE. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.<sup>1</sup>

INSTALLING OF THIS UNIT MUST BE PERFORMED ONLY BY QUALIFIED TRAINED PERSONNEL FOLLOWING APPLICABLE SAFETY RULES. DO NOT ALLOW INSTALLATION OF THIS UNIT IF INSTALLATION HARDWARE IS BROKEN, BENT, PARTS ARE MISSING OR IS OTHERWISE DAMAGED.

<sup>1</sup> - for powered speakers only

## 2. Regulatory information



### FCC COMPLIANCE NOTICE

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.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance 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 instruction manual, 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.

### EC DECLARATION OF CONFORMITY

Manufacturer:  
MAG Audio LLC  
Merezhna 2  
Bila Tserkva, Kyiv region  
09112 Ukraine

We declare under our sole responsibility that product models:

AIR-62-8, AIR-62-16, AIR-82-8, AIR-82-16,  
AIR-122-8, AIR-122-16, AIR-152-8,  
AIR-210-4, AIR-210-8

intended for use as:

professional speaker systems

are in conformity with the provisions of the following EC Directives, including all amendments, and with national legislation implementing these directives:

- 2006/95/EC Low Voltage Directive
- 2004/108/EC Electromagnetic Compatibility Directive
- 2002/95/CE RoHS Directive

The following harmonized standards are applied:

EN 55103-1:2009 /A1:2012  
EN 55014-1:2006 /A1:2009 /A2:2011  
EN 55022:2010 /AC:2011  
EN 61000-3-2:2006 /A1:2009 /A2: 2009  
EN 61000-3-3:2013  
EN 61000-3-11:2000  
EN 61000-3-12:2011  
EN 55103-2:2009 /IS:2012  
EN 61000-4-2:2009  
EN 61000-4-3:2006 /A1:2008 /IS1:2009 /A2:2010  
EN 61000-4-4:2012  
EN 61000-4-5:2006  
EN 61000-4-6:2014  
EN 61000-4-11:2004  
EN 60065:2002 /A1:2006 /A11:2008 /A2:2010 /A12:2011

Bila Tserkva,  
22 January 2019

Alexey Asanov  
CEO

# 3. AIR series

## 3.1. Introduction

AIR series has been created as the series of installation-dedicated speakers, backed-up with various mounting hardware options for ease and versatility of set-up. Available weatherproof capability makes AIR series even more adaptable, ready to be used in outdoor installations as well.

Benefiting from truly point-source design based on coaxial and full-range speakers, AIR series opens a new dimension for speaker placement to achieve best possible coverage while keeping sound system visual imprint to the lowest possible minimum.

Together with installation subwoofers, AIR cabinets are capable to deliver significant sound pressure required by modern clubs, bars, entertainment centers, malls, and open-air theme parks.

## 3.2. AIR series speaker models

AIR series includes following speaker models:

AIR-62-8 part number 00-0004538  
AIR-62-16 part number 00-0005612

AIR-82-8 part number 00-0004537  
AIR-82-16 part number 00-0005613

AIR-122-8 part number 00-0004539  
AIR-122-16 part number 00-0006699

AIR-152-8 part number 00-0004540

AIR-210-4 part number 00-0005615  
AIR-210-8 part number 00-0004387



# 4. Specifications



System	AIR-62	AIR-82
Type	Installation speaker	Installation speaker
Frequency Response (-10dB)	90 - 18000 Hz	80 - 18000 Hz
Max SPL <sup>1</sup>	124 dB	127 dB
Sensitivity (1W/1m)	93 dB	94 dB
LF Driver	6", 1,75" VC	8" coaxial
HF Driver	1", 1" VC	
Nominal Coverage Angle (Horizontal x Vertical)	80° x 60°	90° x 90°
Impedance	8 Ohm (AIR-62-8) 16 Ohm (AIR-62-16)	8 Ohm (AIR-82-8) 16 Ohm (AIR-82-16)
Nominal power <sup>2</sup>	150 W	250 W
Connectors	Barrier strip	Barrier strip
Dimensions (W×H×D), mm	278x318x200 mm	338x383x242 mm
Net weight, kg	6 kg	9,5 kg
Shipping weight, kg	7 kg	10,5 kg
Mounting	VESA 75x75; 3x M10 Mounting points	VESA 75x75; 3x M10 mounting points
Enclosure material	Plywood; wear-resistant paint	Plywood; wear-resistant paint
Grill	Steel grill, polymer protective net	Steel grill, polymer protective net

<sup>1</sup> - peak value, calculated according to AES 2 - 2012

<sup>2</sup> - based on transducer power measured according to AES 2 - 2012



System	AIR-122	AIR-152	AIR-210
Type	Installation speaker	Installation speaker	Installation speaker
Frequency Response (-10dB)	55 - 18000 Hz	50 - 18000 Hz	55 - 18000 Hz
Max SPL <sup>1</sup>	129,5 dB	133,5 dB	136 dB
Sensitivity (1W/1m)	96 dB	97 dB	98 dB
LF Driver	12" coaxial	15" coaxial	2x 10", 3" VC
HF Driver			2", 3" VC
Nominal Coverage Angle (Horizontal x Vertical)	100° x 100°	70° x 70°	85° x 55°
Impedance	8 Ohm (AIR-122-8) 16 Ohm (AIR-122-16)	8 Ohm	4 Ohm (AIR-210-4) 8 Ohm (AIR-210-8)
Nominal power <sup>2</sup>	300 W	600 W	850 W
Connectors	Barrier strip	Barrier strip	Barrier strip
Dimensions (W×H×D), mm	460x545x334 mm	510x599x380 mm	750x300x353 mm
Net weight, kg	24 kg	25,5 kg	35 kg
Shipping weight, kg	27 kg	27,5 kg	37 kg
Mounting	VESA 100x100; 3x M10 Mounting points	VESA 100x100; 3x M10 mounting points	8x M10 mounting points
Enclosure material	Plywood; wear-resistant paint	Plywood; wear-resistant paint	Plywood; wear-resistant paint
Grill	Steel grill, polymer protective net	Steel grill, polymer protective net	Steel grill, polymer protective net

<sup>1</sup> - peak value, calculated according to AES 2 - 2012

<sup>2</sup> - based on transducer power measured according to AES 2 - 2012

# 5. System operation



## 5.1. Rigging

AIR series systems are equipped with M10 mounting point adapters for versatile applications.

Rigging must be performed only by trained personnel following the established safety rules.

**MAXIMUM WEIGHT RESTRICTIONS MUST BE FOLLOWED AT ALL TIMES!**

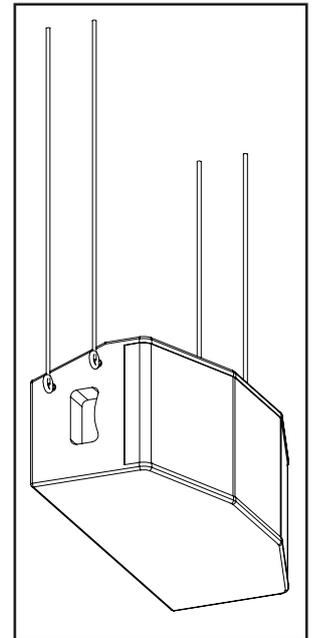
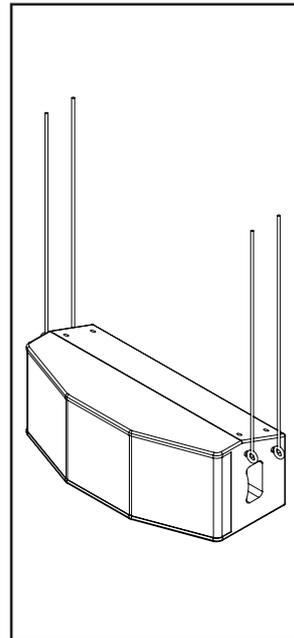
**MAKE SURE THE SUPPORT STRUCTURE IS CAPABLE OF HOLDING THE APPLIED WEIGHT WHILE SUSPENDING THE SYSTEM!**

## 5.2. Flying AIR-210 via M10 mounting points

*Required accessories:*

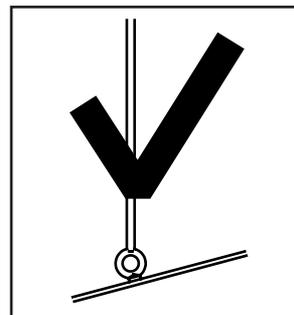
VA-0016 (part No. 00-00003695)

AIR-210 is equipped with 8x M10 mounting points for mounting applications.

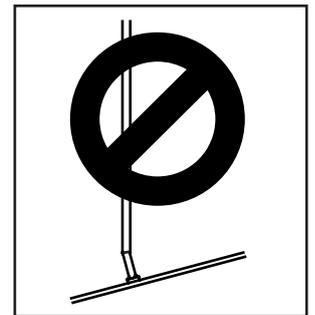


## 5.3. Eye-bolt orientation

While flying, applied force must be in the plane of the VA-0016 eyebolt's ring. It is prohibited to arrange the rig in the way that force is at the angle from the eyebolt's ring plane.



Right



Wrong

## 5.4. Wall or ceiling mounting using mounting adapter

Required accessories:

LAIR-62 (part No. 00-0004819) - for AIR-62

LAIR-82 (part No. 00-0004821) - for AIR-82

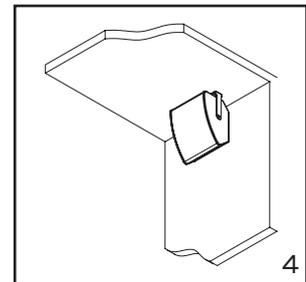
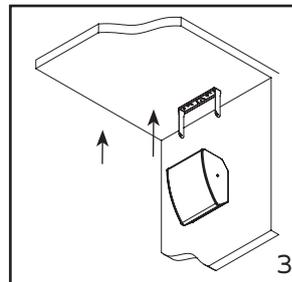
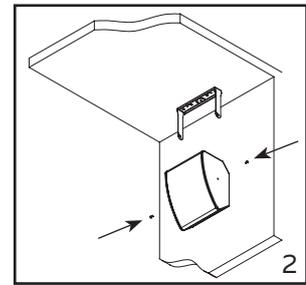
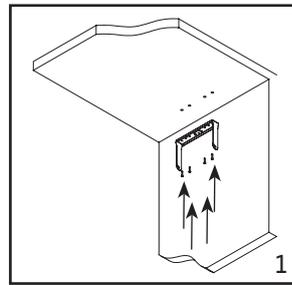
LAIR-122 (part No. 00-0004822) - for AIR-122

LAIR-152 (part No. 00-0004823) - for AIR-152

- Attach the LAIR bracket, compatible with your speaker, to wall or ceiling using mounting holes provided (Pic 1).

- Release the two M10 mounting bolts on sides of the speaker, and place the speaker into receptacles of the LAIR mounting bracket (Pic 2, 3).

- Choose tilt angle, and tighten two M10 mounting bolts (Pic 4).



## 5.5. 3D mounting

Required accessories:

LAIR-62 (part No. 00-0004819) - for AIR-62

LAIR-82 (part No. 00-0004821) - for AIR-82

LAIR-122 (part No. 00-0004822) - for AIR-122

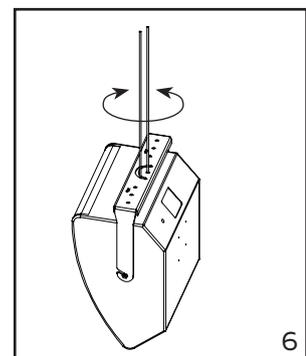
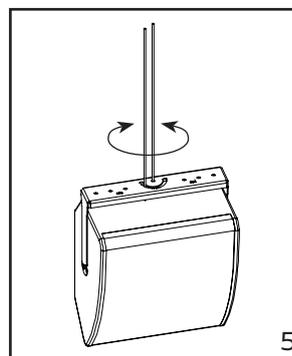
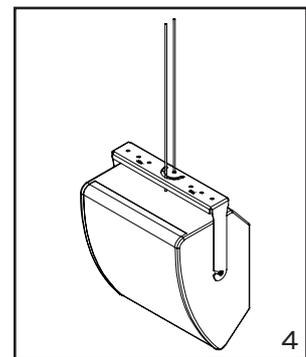
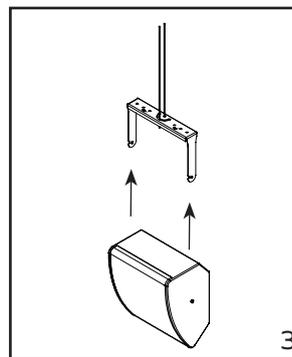
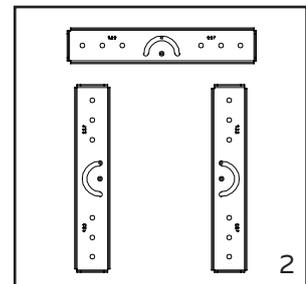
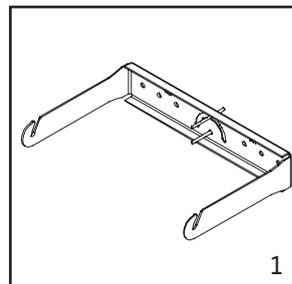
LAIR-152 (part No. 00-0004823) - for AIR-152

- AIR series speakers can be placed with pan and tilt capability using the rotation pattern of the LAIR bracket.

- Mount the bracket onto the threaded pole or other support structure using rotation pattern. Rotation pattern allows to position LAIR bracket at any of 360 degrees angle (Pic. 1, 2).

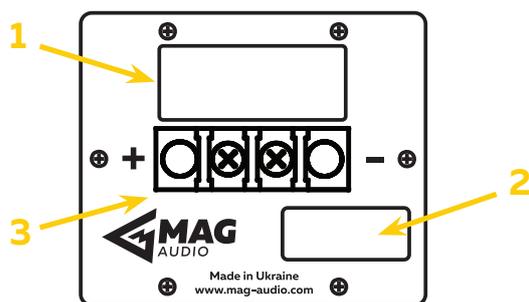
- Release the two M10 mounting bolts on sides of the speaker, and place the speaker into receptacles of the LAIR mounting bracket (Pic. 3, 4).

- Choose tilt angle, and tighten two M10 mounting bolts (Pic. 5, 6). Choose pan angle, and tighten the bolts or nuts attached to support structure.



## 5.6. Passive speakers

AIR series speaker's connection plate



1. LABEL FIELD: Name of the system, along with its basic parameters is noted here.

2. SERIAL NUMBER FIELD: Sticker with the systems serial number is located here. NEVER REMOVE THE SERIAL FROM THE SYSTEM, AS IT IS AN IMMEDIATE WARRANTY VOID.

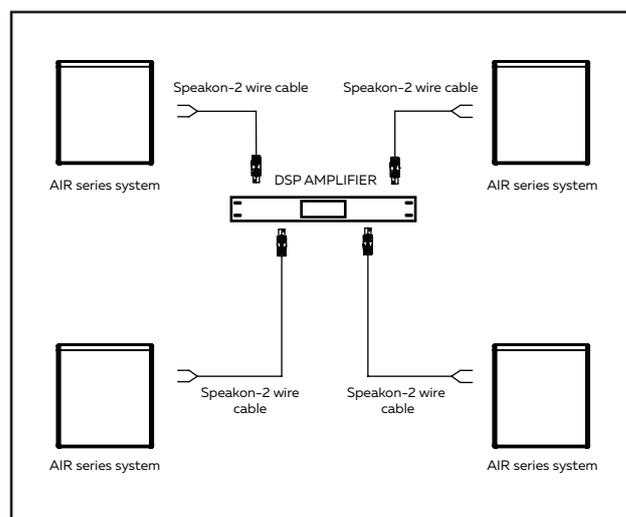
3. INPUTS TERMINAL: The pair of screw terminals. Use this connectors to connect power amplifier and to feed the signal to the parallel system (optional).

### 5.6.1. Passive connections

Use power amplifier with DSP or power amplifiers with external speaker processor with AIR series systems.

MAKE SURE TO USE HIGH PASS FILTER FOR ALL AIR SERIES SYSTEMS TO PREVENT EXCESSIVE CONE MOVEMENT, RESULTING IN TRANSDUCER DAMAGE OR FAST DETERIORATION.

Recommended HPF settings, suggested power amplifier ratings, and connection pins are found in the table below:



AIR series passive connection diagram

System	Amplifier power	Amplifier impedance	Connection pins	Recommended HPF
AIR-62-8	150 - 300 W	8 Ohm	+ terminal -1 terminal	80 Hz or higher, 18 dB/oct min
AIR-62-16	150 - 300 W	16 Ohm	+ terminal -1 terminal	80 Hz or higher, 18 dB/oct min
AIR-82-8	250 - 500 W	8 Ohm	+ terminal -1 terminal	60 Hz or higher, 18 dB/oct min
AIR-82-16	250 - 500 W	16 Ohm	+ terminal -1 terminal	60 Hz or higher, 18 dB/oct min
AIR-122-8	300 - 600 W	8 Ohm	+ terminal -1 terminal	50 Hz or higher, 18 dB/oct min
AIR-122-16	300 - 600 W	16 Ohm	+ terminal -1 terminal	50 Hz or higher, 18 dB/oct min
AIR-152-8	600 - 1200 W	8 Ohm	+ terminal -1 terminal	45 Hz or higher, 18 dB/oct min
AIR-210-4	850 - 1700 W	4 Ohm	+ terminal -1 terminal	50 Hz or higher, 18 dB/oct min
AIR-210-8	850 - 1700 W	8 Ohm	+ terminal -1 terminal	50 Hz or higher, 18 dB/oct min

# 6. Standard contents

Please check the complement of your AIR series system upon receiving the package.  
Standard contents of AIR series systems:

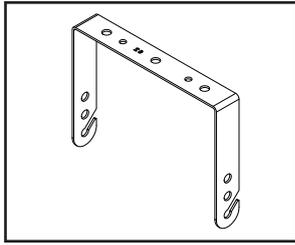
System	Supplied AIR series system	AIR series User Manual	Polyethylene bag	Carton Box
AIR-62-8	AIR-62 8 Ohm passive speaker system	+	+	+
AIR-62-16	AIR-62 16 Ohm passive speaker system	+	+	+
AIR-82-8	AIR-82 8 Ohm passive speaker system	+	+	+
AIR-82-16	AIR-82 16 Ohm passive speaker system	+	+	+
AIR-122-8	AIR-122 8 Ohm passive speaker system	+	+	+
AIR-122-16	AIR-122 16 Ohm passive speaker system	+	+	+
AIR-152-8	AIR-152 8 Ohm passive speaker system	+	+	+
AIR-210-4	AIR-210 4 Ohm passive speaker system	+	+	+
AIR-210-8	AIR-210 8 Ohm passive speaker system	+	+	+



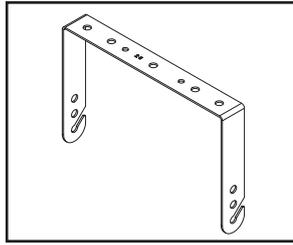
# 7. Accessories



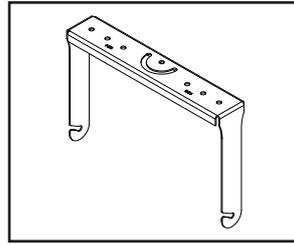
Various accessories are available for AIR series systems:



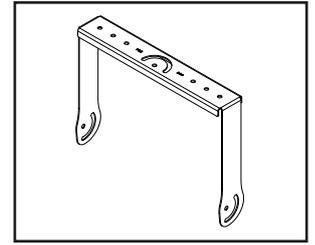
LAIR-62 mounting  
bracket  
Part No. 00-0004819



LAIR-82 mounting  
bracket  
Part No. 00-0004821



LAIR-122 mounting  
bracket  
Part No. 00-0004822



LAIR-152 mounting  
bracket  
Part No. 00-0004823

# 8. Warranty and assistance

## 8.1. Product warranty

1. By this warranty MAG Audio grants that all equipment manufactured under the MAG Audio trademark is free from defects in material, components and factory workmanship under the normal use and maintenance for the time as specified below.

2. All warranty repairs and maintenance of MAG Audio products shall be carried out at MAG Audio production sites or by MAG Audio authorized personnel.

3. Warranty period for cone transducers, high frequency drivers and crossovers, whether sold separately or as a component of a speaker system, is 60 months from the production date.

4. Warranty period for enclosures, grills, connection plates and accessories, whether sold separately or as a component of a speaker system, is 60 months from the production date.

5. Warranty period for built-in power amplifiers, whether sold separately or as a component of a speaker system, is 36 months from the production date.

6. Warranty repairs or maintenance will be performed only if a) MAG Audio product was purchased from an official MAG Audio distributor / dealer and b) warranty card with specified serial number, production date, realization date, vendor's signature and stamp is presented.

7. Warranty shall not cover following: damage caused by accident, misuse or failure to follow exploitation rules stated in technical manual; repairs performed by non-authorized personnel; mechanical damage caused by shipping accidents and normal tear and wear.

8. Warranty shall not be applicable to any product with defaced, removed, or modified serial number.

9. If your MAG Audio product needs repairs or maintenance, contact your official MAG Audio distributor / dealer. Please do not ship your MAG Audio product without prior authorization.

## 8.2. Assistance

There are no user-serviceable parts in your device. Refer servicing to qualified technical personnel. In addition to in-house service department, MAG Audio supports the chain of distributors, authorized in repairs and service. If your device needs repair contact your MAG Audio dealer or distributor.

Occasionally, due to the nature of the failure, it might be necessary to return defective products to MAG Audio for repair. In this case, before shipping, please kindly contact your MAG Audio distributor or dealer, or MAG Audio directly. You will be provided the RMA number code and detailed instructions regarding your particular case. Please do not send products without a prior authorization.

Thank you for your understanding, cooperation and choice of MAG Audio products.



2 Merezhna St., Bila Tserkva,  
Kyiv region, 09100, Ukraine  
Tel./Fax: +38 044 2774789  
e-mail: [info@mag-audio.com](mailto:info@mag-audio.com)  
**[www.mag-audio.com](http://www.mag-audio.com)**