



# MaGnat Multi Monitor 220 Active Bookshelf Speaker Instruction Manual

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# Magnat®

**MULTI-MONITOR 220**  
**Important notes for installation/warranty card**  
**Mode d'emploi / certificat de garantie**



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At the end of the product's useful life, please dispose of it at appropriate collection points provided in your country.

## FCC STATEMENT

1. 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.
2. 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 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.

**Radiation Exposure Statement**

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

**IC WARNING**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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

**FCC ID: 2AYRL-MULMONITOR220**

**IC: 26914- MMONITOR220**

**Dear MAGNAT Customer,**

Congratulations on your fine new loudspeakers and thank you very much for choosing MAGNAT! You have made an excellent choice. The high-quality speakers produced by MAGNAT are renowned all over the world. Please study the instructions and information below carefully before using your new loudspeakers.

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**IMPORTANT SAFETY PRECAUTIONS**

- Please read through the instruction manual carefully before starting to use the device. This manual

**contains important information concerning operation and safety aspects. It is imperative you observe all of the information. Keep the manual in a safe location.**

- **WARNING NOTICES:** All of the warning symbols on the speakers, accessories, and in the instruction manual itself must be adhered to.
- **EXPOSURE TO HEAT:** Only operate the speakers and accessories in a temperature range from 5°C to 40°C.
- The speakers should not be positioned near heat sources (heaters, ovens, radiant heaters, naked flames, etc.). When setting up close to an amplifier a minimum distance of 10 cm must be maintained.
- **EFFECT OF MOISTURE:** The speakers should not be exposed to dripping or splashing water. Neither should they be used to support vases or other containers filled with liquid. Do not expose the speakers to water or high levels of humidity. There is a danger of electric shock. In the event of contact with moisture or liquids remove the mains adapter immediately.
- **FOREIGN MATERIAL:** Ensure that no foreign material enters through the speaker openings and into the interior. This could trigger short circuits and even result in electric shock and fire.
- **CLEANING:** Please use a soft, dry cloth with no cleaning agents, sprays, or chemical solvents, as these could damage the surfaces.
- **ELECTRICAL CONNECTION:** Please note the voltage levels on the information sign. The main adapter for the speakers should only be operated with the voltage and frequency values specified on the sign.
- **LIGHTNING PROTECTION/PREVENTIVE MEASURES:** If the device is not going to be used for a prolonged period (e.g. when on holiday), it should be disconnected from the mains by removing the plug. The device should also be disconnected from the mains in the event of a thunderstorm. Doing this will prevent damage caused by lightning and overvoltage.
- **MAINS CABLE:** The main cable must always be suitable for operation and it should only ever be laid out in a manner that prevents it from being trodden on. It should not be pinched by objects either, as this can damage the cable. When using plugs and power strips it must be ensured that the cable is not kinked at the point where it emerges from the socket. Do not connect or remove the main cable with damp hands.
- Protective earthing terminal. The apparatus should be connected to a main socket outlet with a protective earthing connection.
- By means of a power cord connected to a socket-outlet with earthing connection.
- **OVERLOAD:** Sockets, power strips, and extension cables should not be overloaded. If an overload occurs, there is a risk of electric shock and fire.
- The speakers should only be positioned or mounted on a solid surface and not on moving base frames, otherwise, there is a risk of injury.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat, such as sunshine, fire, and the like.
- **CAUTION:** Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.

## **DAMAGE THAT MUST BE RECTIFIED BY A SPECIALIST:**

If any of the following damage occurs, disconnect the speaker from the mains immediately and contact a specialist to conduct the repair work:

- Damage to the mains cable or the mains plug.  
A damaged cable should not be repaired but must be replaced.

- If moisture or water has entered the device or foreign objects have fallen into the device.
- If the speaker has fallen and the housing is damaged.
- If the device does not work properly, even though all of the information in the instruction manual has been observed.

Only those subsequent alterations approved by the manufacturer may be conducted.

Only original spare parts should be used for repair.

After conducting any repairs the safety of the device should be checked to ensure it is functioning correctly and safely.

Repairs must always be conducted by qualified specialists, as you might otherwise be exposed to dangerous high voltage levels or other hazards.



The triangle with a lightning symbol warns the user that high voltage is used within the device which can result in electric shock.



The triangle with an exclamation mark informs the user that important operating and maintenance instructions (repair) are contained in the accompanying instruction manual, which must be observed.



Do not open! Risk of electric shock!

**CAUTION:** In order to avoid electric shock do not open the speaker housing/mains adapter or remove the covers. The user is not to conduct any repairs him/herself. Repairs should only be conducted by qualified technicians! Do not use any sockets or extension cables that do not fully accommodate the plug of the device.

## INSTRUCTIONS FOR DISPOSAL

In accordance with European Directive 2012/19/EU, all electrical and electronic appliances must be disposed of separately via local collection points. Please observe the local regulations and do not dispose of your old appliances with normal household waste.

### Battery disposal

Old batteries are hazardous waste and must be disposed of in accordance with current regulations.



## DECLARATION OF CONFORMITY

Hereby, Magnat Audio-Produkte GmbH declares that the device Multi Monitor 220 is in compliance with the essential requirements and other relevant provisions of directive 2014/53/EU. The Declaration of Conformity can be found at [www.mac-audio.de](http://www.mac-audio.de) in the download area of the device.

## USE AS DIRECTED

This device is designed for indoor use only.

## CONTENTS

- (A) 1 pc. Active speaker
- (B) 1 pc. Passive speaker
- (C) 1 pc. Mains cable for the active speaker
- (D) 1 pc. Remote control including battery (2 x AAA)
- (E) 3 m Speaker cable
- (F) 1 pc. Instruction manual (incl. warranty certificate)

## UNPACKING THE SPEAKER SET

Please unpack the speakers and accessories carefully and check the contents of the box using the list above. In

the event of any transport damage, please contact your supplier. Keep the packing material in a safe location. The original packaging enables trouble-free transportation for any subsequent relocation and servicing requirements.

## OPERATIONAL ELEMENTS

### LED status indicator for the active speaker (Fig. 1)

- red: Standby mode
- red, flashing: Mute mode active, device is muted
- green: analog input active (Phono/Line)
- orange: AUX input active (3.5 mm jack socket)
- white: digital inputs active (optical/coaxial)
- blue: Bluetooth input active, connected to the source device
- blue, flashing quickly: Bluetooth input active, device in pairing mode
- blue, flashing slowly: Bluetooth input active, no source device connected

### Rear controls of the active speaker (Fig. 2)

- (2) Power switch
- (3) Mains connection
- (4) Switch PHONO/LINE
- (5) Earth terminal GND
- (6) RCA IN: Analogue stereo input (RCA jack)
- (7) AUX IN: Analogue stereo input (3.5 mm jack socket)
- (8) SUB OUT: Output for connecting an active subwoofer
- (9) DIGITAL IN OPTICAL: Optical digital input
- (10) DIGITAL IN COAXIAL: Coaxial digital input
- (11) Rotary/push-button for volume control and source selection
- (12) LEFT CHANNEL OUTPUT: Connection for the left passive speaker

### ATTENTION:

The loudspeaker is equipped with an integrated amplifier and needs to be connected to a mains outlet by means of the supplied mains cable.

### Operation with the system remote control (fig. 3):

- (13) ON/STBY: Switches the device on when it is in standby mode. If the Standby-LED (fig. 1 (1)) does not illuminate, actuate the power switch (fig. 2, (2)) located on the rear. Conversely, the device can be switched from power operation to standby mode.
- (14) VOLUME: Increases (+) or decreases (-) the volume.
- (15) TREBLE: Increases (+) or decreases (-) the volume of high frequencies for manual adjustment of the sound pattern.
- (16) BASS: Increases (+) or decreases (-) the volume of low frequencies for manual adjustment of the sound pattern.
- (17) LINEAR: Resets all of the changes made to the frequency response (buttons 15 and 16) to a neutral setting.
- (18) MUTE: Switches the sound on and off.
- (19) SOURCE: Selects the audio input: PHONO/LINE, AUX-IN, DIGITAL IN, BLUETOOTH
- (20) PAIR: Switches the device to the pairing mode when in Bluetooth operation to establish a connection to a Bluetooth source device. The blue LED status indicator (Fig. 1, (1)) flashes quickly.

## CONNECTING THE MAGNAT MULTI MONITOR 220

Connecting audio sources to the active speaker

## 1. Connection to an amplifier, AV receiver, or another analog audio source

Connect the audio input of the active loudspeaker (RCA IN, Fig. 2 (6)) to the audio output on the device using an RCA stereo audio cable.

**CAUTION:** The switch (Fig. 2 (4)) must be set to LINE.

## 2. Connecting a record player to the active loudspeaker

Connect the audio input of the active loudspeaker (RCA IN, Fig. 2 (6)) to the audio output on the record player using an RCA stereo audio

cable. In addition, the earth wire of the record player (where present) has to be connected to the screw terminal (Fig. 2 (5)).

**CAUTION:** The switch (Fig. 2 (4)) must be set to PHONO.

## 3. Connect to a headphone jack or pre-amplifier output with a 3.5mm jack

Connect the audio input of the active loudspeaker (AUX IN, Fig. 2 (7)) to the headphone output on your amplifier, TV, MP3 player, smartphone, etc. using a 3.5 mm audio cable/3.5 mm stereo jack.

## 4. Connecting to digital audio sources

Connect the audio input of the active loudspeaker (Digital IN, Fig. 2 (9, 10)) to the digital output on your CD player, computer, games console, network player, or TV using an optical or coaxial digital audio cable. The digital inputs can be selected separately, therefore it is possible to connect two digital sources simultaneously.

**PLEASE NOTE:** The digital inputs are suitable for stereo signals up to 24 bit/192kHz

## 5. Connection to a Bluetooth device

Switch the active loudspeaker to the Bluetooth input. If you have previously connected a Bluetooth device, the sound deck will automatically attempt to re-establish a connection with this device. If this is the case, you may be required to manually reconfirm the connection on the source device.

If a connection has not already been made or the connection cannot be re-established, activate the 'pairing mode'. To switch the speaker to the pairing mode, briefly press the PAIR button (Fig. 3, (20)) on the remote control. The blue STBY/Pair LED (Fig. 1, (1)) will flash quickly whenever the pairing mode is active.

Now activate the Bluetooth mode on your source device. The speaker will appear in the list of Bluetooth devices as „Multi-Monitor 220“.

If it is not displayed in the list, set your source device to search for Bluetooth devices manually and make sure that the speaker has been switched to the pairing mode.

Depending on the source device, you may be asked whether the password is to be accepted during the pairing procedure. You can confirm this by simply pressing „Accept“. If you are still asked for a password, use the default passwords „0000“ or „1234“. If you are asked if you want to establish a connection after pairing, please select „Yes“. When the device has been paired and connected successfully the LED status indicator will illuminate continuously blue.

The sound deck supports the „Qualcomm® aptX™“ high-quality audio transmission standard. If your source device also supports this standard, „Qualcomm® aptX™“ will be selected automatically as the transfer mode when establishing a Bluetooth connection.

### NOTE:

Please check whether the output of the audio source

a) has a fixed volume level or

b) the level can be adjusted with the volume controller of the audio source.

In case a) you can adjust the volume using the remote control of the MAGNAT Multi Monitor 220; in case of b) the level of the audio source should be set to a maximum level where no distortions can be heard at the highest volume setting of the Multi-Monitor 220. The volume of the audio source should also be taken into account. No

distortions should be evident here either.

### **Connecting the left speaker**

The set consists of an active speaker and a passive speaker. A stereo amplifier is incorporated in the active speaker.

On the left, the passive speaker is connected using the supplied cable. Please take the polarities into account when doing this. The positive terminal of the active speaker must be connected with the positive terminal of the passive speaker and the negative terminal of the active speaker must be connected with the negative terminal of the passive speaker. One wire of the speaker cable is marked to provide protection against polarity reversal.

### **Connecting a subwoofer to the active speaker**

The active speaker has a subwoofer output (fig. 2 (8)) at the rear for controlling an active subwoofer. Use a mono audio cable and the LINE-IN input of the active subwoofer. The subwoofer output has a low-pass filter with a cut-off frequency of 150Hz. This speaker is ideally suited for operation with an active subwoofer with a variable low-pass filter.

### **Connecting the power supply of the transmitter and the active speaker**

Included in delivery is the most commonly used mains cable. The main cable used in your country, however, may be different. If the mains cable is not compatible with your power sockets or if you are in any doubt, please contact your Magnat dealer.

1. Insert the 3-pin mains cable into the socket of the active speaker (Fig. 2, (3)).
2. Insert the main cable into the socket. Make sure that you are using the mains plug that is compatible with the socket (refer to the information above).

## **OPERATION**

As soon as the device is connected to the power supply and the power switch (Fig. 2, (2)) has been turned on, the STBY LED on the active loudspeaker lights up red. The speaker is then in standby mode. 5 different audio sources can be connected to the active loudspeaker at the same time via the outputs (6), (7), (9), (10), and Bluetooth. The speaker is switched on using the remote control (Fig. 3, (13)) and an audio source selected using the button (19). The volume is regulated via the button (14), the speaker can be switched to mute using the button (18). With the BASS (16) and TREBLE (15) buttons, the bass and treble levels can be adjusted to the set-up and your own personal listening taste. The LINEAR button is used to reset the bass and treble control to the neutral position.

Alternatively, the loudspeaker can be operated on the active speaker's rear connection panel (Fig. 2). Pressing the VOLUME/SOURCE control (11) the first time switches on the active speaker, pressing it again selects the inputs in turn. The volume is regulated by turning the control. Prolonged pressing switches the loudspeaker to stand-by mode.

### **Please note:**

All MAGNAT loudspeakers are designed and built for optimum sound reproduction with the tone controls in the central position – i.e. with “linear” amplifier output. Turning up the bass and treble controls too far delivers more power to the woofers and/or tweeters, and at high volumes, this can actually destroy the speaker units! Always turn the volume down immediately as soon as you hear distortion!

## **INSTALLATION OF THE SPEAKERS**

The loudspeakers are placed at ear height or a little above on the left and right beside the listening position. There should be a clear line of sight between the loudspeakers and the listening position. Any sound-absorbing or reflecting obstacles in the path will distort the sound. The MAGNAT Multi Monitor 220 speakers have been optimized for installation close to a wall, meaning they are ideal for use on a table, sideboard, shelf or in a rack.

When you install the loudspeakers the following distances should be maintained: The distance to the sides and rear to walls and items should be at least 5 cm.

If the speakers are arranged on a shelf, there must be a minimum clearance of 5 cm to the shelves above or the ceiling.

### **CAUTION**

Interfering with the speaker or accessories shall result in the expiration of the operating license. The supplied

accessories are to be used for operation. Additional accessories must be intended for the purpose at hand and in perfect working order.

## AUTO STANDBY FUNCTION

The unit has an Auto Standby function that automatically switches the device to standby mode if no audio signal is detected on the inputs over a period of approx. 60 minutes. This function implements an EU energy-saving regulation (1275/2008 EC), reducing power consumption if the device is accidentally left turned on after use.

### **This function can be deactivated as follows:**

Press the MUTE button on the remote control. Then keep the Volume/Source control at the rear of the right speaker depressed for 5 seconds and release it. The green LED flashes twice in the display as confirmation. The Auto Stand-by function has been deactivated.

Repeat the procedure to re-activate the Auto Stand-by function. The green LED flashes once in the display as confirmation.

## SPECIFICATIONS

Configuration:	1 active stereo speaker, 2 way bass reflex, fully
Speaker assembly:	1 x 125 mm bass/midrange, 1 x 25 mm tweeter
Output power (RMS/Max.):	2 x 40 / 2 x 80 Watt
Frequency range:	35 – 40.000 Hz
Crossover frequency:	3200 Hz
Mains voltage:	100-240 V AC / 50/60 Hz
Operating frequency:	2402 – 2480 MHz
Maximum emitted power (EN 62479):	2.97 dBm
Dimensions (wxhxd):	178 x 298 x 235 mm
Weight:	Active speaker: 5.0 kg Passive speaker: 4.4 kg


## SUBJECT TO TECHNICAL CHANGE.

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# EAC

## Documents / Resources

	<a href="#">MaGnat Multi Monitor 220 Active Bookshelf Speaker</a> [pdf] Instruction Manual MULMONITOR220, 2AYRL-MULMONITOR220, 2AYRLMULMONITOR220, Multi Monitor 220 Active Bookshelf Speaker, Multi Monitor 220, Active Bookshelf Speaker
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## References

- **M** [MAGNAT Onlineshop](#)
- **M** [Mac Audio Onlineshop](#)
- **M** [MAGNAT Onlineshop](#)

Manuals+.