



**MICROMEGA**

# **OPERATING MANUAL**

AS-400



Dear Customer,

Thank you for purchasing Micromega AS400 Integrated amplifier.

This unit provides ease of use and sonics of the highest quality. Please pay close attention to this instruction manual, and read it fully before attempting to operate. It is designed to ensure you maximise your pleasure and familiarise you with its many unique functions.

## CHECKING

Check that the carton has no damage. Should you have any doubt about its condition, please do not hesitate to contact your dealer.

## UNPACKING

Very carefully remove the unit from the box, taking care to preserve all the packing material. It is good practice to put the carton and its contents into an outer plastic bag and deposit it somewhere safe and dry. In the unlikely event that your unit needs to be sent back to either your dealer or distributor, it must be sent in the original packing material. Failure to observe this will invalidate your warranty.

## ACCESSORIES

Upon opening the carton you should find the following:

- Mains Lead
- Remote control handset
- 4 pces AAA battery.

## MAINS VOLTAGE

- Check that the mains voltage indicated on both the carton and the rear of the unit correspond to the local power supply
- If you are in any doubt, consult your dealer.

## INSTALLATION

In order to obtain the maximum performance of your AS-400, it is important to follow the installation instructions.

Wherever possible, we recommend that your amplifier is installed in an audio rack or other suitable furniture that provides sufficient ventilation.

### WARNING!

If for aesthetic or ease of use reasons, you choose to stack the units, it is imperative that you place your amplifier on the top. Never place any unit on top of your amplifier. We recommend that you provide a space of at least 30cm above your amplifier in order to ensure adequate ventilation.

## CONNECTIONS

Having verified that the mains voltage indicated on the rear of the unit corresponds to the local power supply mains voltage and that the ON/OFF switch is on OFF position, connect the mains leads provided to the rear the unit and to the wall socket.

Connect the Stereo Interconnect cables from the rear of all your sources to the corresponding inputs on your amplifier.

Connect your loudspeaker cables between your amplifier and your loudspeakers paying attention to polarity.

The very high quality speaker terminals accept different type of connections like bananas, or stripped up to 10mm<sup>2</sup> speaker wires. It is important to use quality speaker cable to get the maximum out of your amplifier.

## POWERING UP

You may now turn on your amplifier by switching the ON/OFF switch located at the back of the unit.

The display indicates the model of your amplifier:

AS 400

Then the standby LED lights up indicating that the unit is on standby mode.

Press on the **STANDBY** key of the unit of the unit or on the **AMP** key of the remote control handset if you have one. The unit turns on and the display shows:

AirDream -60dB

The *AirDream* logo located below the dot matrix display lights up in blue for a very short period then in red. After about 1 minute, the *AirDream* logo resumes to blue indicating that the *AirDream* section is ready. Please read the attached manual for its configuration.

NOTA: Due to the very large amount of energy stored in the power supplies, it is strongly recommended to wait for 15 seconds between turning off the unit and turning it on again. If you do not follow this recommendation a very small switching noise could appear in the speakers.

## FRONT OF THE AMPLIFIER

**iPOD:** Analog input used for external sources

**HEADPHONE:** Headphone socket

**ROTARY CONTROL:** To control volume and setup.

**< INPUT SELECT >:** Input selection.

**MONITOR:** Direct access to *TAPE* or *PRO ON* mode.

**MUTE:** To mute the amplifier and to set the Balance.

**HEADPHONE:** To switch on the Headphone output and switch off the speakers. A headphone logo appears on the left side of the volume indication.

**STANDBY:** To switch the unit in and out of standby. A blue LED located below the central knob indicates the unit is in standby.

## DISPLAY

AN1 -60dB

The display indicates:

- On the left side the selected source.
- On the right side the volume level.
- In some cases the status of the unit (Balance, Headphone...).

## SELECTION (< INPUT SELECT >)

The selection of inputs is made via the **< INPUT SELECT >** keys.

- In order to select your choice of input use successive depressions of the key.

The display will indicate the name of the selected source from the following list: *PHO* - *AN1* - *AN2* - *AN3* - *iPod*. To comply with the latest European legislation, the *AirDream* module is active only when its input "Air" is selected

## VOLUME

The setup of volume is achieved with the rotary control located in the centre of the front panel. The increment of the rotary volume control is dependent from the speed of rotation of the encoder. The display will indicate a level between -80dB and 0 dB..



**AUDIO CHARACTERISTICS**

MM Phono Input.....	1
Phono Input sensitivity / impedance.....	18mV/47kΩ
Stereo Analog Inputs.....	3
Analog inputs sensitivity / impedance.....	280mV/100kΩ
Headphone output (Front).....	1
Monitor Loop.....	1
Sub input pass-through.....	1
Sub out.....	1
Sut output cut-off frequency (-3dB).....	400Hz
Processor input.....	1
Pre Out.....	1
Output Power (both channels / 4Ω).....	400W
Frequency response (all loads +0/-3dB).....	10Hz – 50kHz
Power bandwidth.....	20Hz - 35kHz
Output impedance.....	< 150mΩ / f <.20kHz
Output noise (unweighted 20Hz-20kHz).....	< 30μV
THD (20Hz-20kHz – 1/2 power).....	< 0.01 %
Signal to noise ratio (A weighted).....	> 96 dB

**AIRDREAM CHARACTERISTICS**

Sample rate (inherent to iTunes software).....	16Bits / 44.1 kHz
Frequency range (± 0.5dB).....	0Hz – 20kHz
Linearity at -90 dB.....	0.1dB
Signal to Noise ratio + THD.....	<-100dB to 1kHz
Dynamic Range.....	>110dB to 1kHz

**WiFi CHARACTERISTICS**

Audio file formats.....	AAC, AIFF, Apple Lossless, MP3, WMA, WAV
Frequency ranges.....	2,4 or 5 GHz
Standards IEEE.....	802.11n

**OTHER CHARACTERISTICS**

IR remote control.....	Yes
IR remote protocol / frequency.....	RC5 / 36kHz
RS232 remote.....	Yes

**POWER SUPPLY**

Mains voltage.....	100V-120V-220V-240V
Mains frequency.....	50Hz-60Hz
Power consumption (max).....	900 W

**DIMENSIONS (mm)**

Width.....	430
Height (including feet).....	95
Depth (including knobs and antenna).....	370

**WEIGHT (Kg)**

Total.....	15Kgs
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his warranty will start from the date of purchase of the Micromega product.  
 Statutory warranty regulations apply in the country where the Micromega product was purchased. In case of complaints please contact the dealer who supplied your Micromega product.

**WARNING: Warranty will be nulled if the unit is not shipped back in its original packing or if the serial number has been modified or erased.**

Warranty Certificate

Dealer's Stamp

Date of Purchase \_\_\_\_\_

Serial Number \_\_\_\_\_

# AS-400 AirDream Connection

## QUICK AS-400 AIRDREAM NETWORK CONNECTION

The AS-400 is already configured to ensure easy installation. The procedure is slightly different whether you have a MAC or a PC. In any case, your computer must be Wi-Fi compatible.

*For Macintosh users:*

- Your computer will detect the MUSIC network as soon as it is available. Connect your computer to this network by using the default user password “**airdream**”.

*For PC users:*

When the AS-400 is ready, use your computer to detect the wireless networks available. By default, the name of the Wi-Fi network is MUSIC and the default password is “**airdream**”. If this network figures in the list, select it and connect your computer.

If for any reason the MUSIC network does not show up in the list, check that your computer Wi-Fi connection is active. Refresh the list of available networks and check the status of the **AirDream** logo of your AS-400: it should be blue.


## LISTENING TO AUDIO FILES OR RADIO STATIONS

Your streamer is now ready to function and is connected to the network. To stream your music files you need to use iTunes or Airfoil.

If you have not already installed iTunes, download the software from the Apple website ([www.apple.com/en/itunes](http://www.apple.com/en/itunes)). Here is the Airfoil website: ([www.roqueamoeba.com](http://www.roqueamoeba.com))

Airfoil allow you to do whatever iTunes won't let you do. You can choose any media player (Windows Media, VLC, J.River, Google Chrome, Winamp...) and you can stream music coming from site such as Deezer or Spotify directly to the AS-400

Reading Airfoil manual is very useful to get the most out of it.

Now, launch the iTunes application. Once you have opened it, select the loudspeakers on which you wish to listen to your music. Usually, the AIRPLAY logo  appears at the bottom right end side of the iTunes window. Clicking on the AIRPLAY logo and the list of available devices will appear. Select AS400\_xxxxxx, (where x represents the serial number of your airport terminal).

And that's all there is to it. You are now ready to listen to music. Select the audio file you wish to play, then just sit back and listen!

If you are already connected to internet via your home network (see following paragraph), you can also add radio streams to your play-list. Click on Advanced > Open stream and add the address to the URL field.

## iPhone, iPod touch and iPad REMOTE


If you have an iPhone, iPod touch or an iPad, they can all be used as a remote control for your iTunes library.

First, you must download the Remote free application from the App Store.

On your iPhone, iPod touch or iPad, in the Settings menu, set up the WiFi connection using the MUSIC network with the password “**airdream**”. Then select “Add Library” and follow the instructions on the screen. Once synchronized, your iPhone, iPod touch or iPad displays the contents of iTunes library.

## AIRPLAY

You can also send music directly from your iPhone, iPod touch or iPad. Your device must be compatible with IOS 4.3 and should have been updated with this operating system.

Once completed, put your iPhone, iPod touch or an iPad on the MUSIC network using “airdream” as password and open the iPod function. The AIRPLAY logo  appears and by selecting then your AS-400 device, you can play music directly.

## RECONNECTION AFTER CHANGING INPUT

In order to comply with the latest European legislation, the AirDream module of your AS-400 has to be turned off whenever the “Air” input is not selected. When returning to the “Air” input after another input selection, the AirDream module will be reinitialized and you will need to wait one minute until the AirDream logo located under the display will be lighted in blue. You will have then to select again the MUSIC network as mentioned in paragraph 1. If you are connected to a home network as

explained in the next paragraph, the reconnection to your network will be automatic.

## CONNECTION TO YOUR HOME WiFi NETWORK

If you have a wireless home internet access via a WiFi router, you can connect your AS-400 to that network.

This allows you to listen to internet radio stations on your hi-fi system and continue to surf on the internet at the same time.

To do this, follow the reset procedure detailed below, followed by the specific configuration procedure for your network. To find out more about configuration, please check the specific instruction sheet available on the Micromega website: [www.micromega-hifi.com](http://www.micromega-hifi.com).

## RESETTING THE UNIT

If you wish to rename your network or connect to an existing network, or if you are having any problems, you **MUST** reset your AS-400. This is not a simple procedure and we advise you to do this only when it is absolutely necessary.

Before starting, check the serial number: AS400\_XXXXXX and write it down. This is even more important if you have several wireless peripherals.

With the device switched on, using the tip of a pen or a paper clip, press the Reset button for a few seconds (it is situated on the rear panel) until the **AirDream** logo flashing rapidly in Red. This indicates that the reset is complete. Wait at least 60 seconds until the **AirDream** logo flashes slowly in red. You can now reconfigure the device. To do so, refer to the specific instruction sheet available on the Micromega website: [www.micromega-hifi.com](http://www.micromega-hifi.com).

## FREQUENTLY ASKED QUESTIONS

### ***My computer doesn't detect AS-400. What should I do?***

Ensure that the **AirDream** logo on Front Panel of the AS-400 is blue and is not flashing. If this is not the case, switch the device off then switch it back on again. Wait until the setup procedure is complete (this may take a few minutes).

Make sure that the Wi-Fi connection of your computer is active and that no other peripheral device is connected to your AS-400. Open the list of available networks and the MUSIC network should appear.

### ***An error message is displayed when I play a track on iTunes.***

Check that your firewall allows connections between your computer and the AS-400 (for example if the Windows firewall is activated, ensure that the box entitled “Don't authorize exceptions” is not checked). Pay special attention to the settings of your antivirus software too.

Ensure that you have installed the latest version of the iTunes software.

In some cases an update of the AS-400 Wifi firmware may also be necessary.

### ***My internet connection is suddenly interrupted for no apparent reason.***

Check that no other network is interfering with the connection. Do not place the device close to any potential source of interference and set the MUSIC network as your preferred network.

Most of the time, interruptions are not caused by the AS-400 but depends on the location of your as-400 and your computer are installed. For instance, in a building with metallic structure, the WiFi connection can be troubled.

### ***The AirDream logo on the front of the AS-400 is flashing slowly in red.***

The setup procedure has failed. You must complete the setup procedure. To find out how to do so, consult the specific instruction sheet available on the Micromega website: [www.micromega-hifi.com](http://www.micromega-hifi.com).