

Audionet

AMP VII

Modular Multichannel Power Amplifier

User's Manual

Contents

1	Preface	5
1.1	Included	6
1.2	Transport.....	6
2	Overview control elements.....	7
2.1	Frontpanel.....	7
3	Overview connections.....	8
3.1	Back panel	8
4	Installation and power supply	9
4.1	Placement	9
4.2	Mains connection.....	9
4.3	Orientation of mains plug	10
5	Inputs and outputs.....	11
5.1	Inputs	11
5.2	Speaker terminals	11
5.3	Audionet Link.....	12
6	Operating.....	13
6.1	Powering up.....	13
6.2	Switching on/off	13
6.3	Mains phase detection	14
6.4	Using Audionet link	15
6.5	AutoStart function	15
6.6	Warm Up countdown	15
7	Protection system.....	17
8	Setup menu.....	18
8.1	Set Dim Level.....	20
8.2	Set Display.....	20
8.3	Set Input.....	21
8.4	Set AutoStart	22
8.5	Set Off-Text.....	22
8.6	Overview factory defaults	23

9	Technical information	24
9.1	Design.....	24
9.2	Circuitry.....	24
9.3	Power supply	24
9.4	Handling	24
10	Security advice	25
11	Technical data	26

1 Preface

The Audionet Team congratulates you on your purchase of this unit.

Audionet's latest amplifier AMP VII gives you the chance to combine all power amplifiers of your home cinema in one cabinet. Equipped with up to 7 separate channels, the AMP VII renders possible even modern 7.1 home cinema with only one amplifier unit. And you might as well expand existing stereo or multichannel systems due to its modular design and configurable number of amplifier modules.

With a maximum power of 360 Watts in 2 Ohms for each channel simultaneously the AMP VII easily lives up to power demanding loudspeakers. But not only the pure power and rock-solid stability impresses the listener. The AMP VII unites them with excessive richness of information and subtle details as well as perfect immaculateness of sound. Following Audionet's finest traditions, the AMP VII proves to be an audiophile mate for high quality multichannel music reproduction.

The modular design allows the user to configure the AMP VII from at least 4 channels up to the maximum of 7 channels. If required, expanding the unit with additional channels is possible at any time making it future-proof and very easy to adjust the unit to every music or home cinema system.

But before you start listening to your new Audionet AMP VII, please read this manual carefully so you are able to use and enjoy all functions of this unit without drawback on music quality.

1.1 Included

Included you will find the following items:

- the modular multichannel power amplifier AMP VII
- the user's manual (that you are currently reading)
- two standard mains cords

1.2 Transport

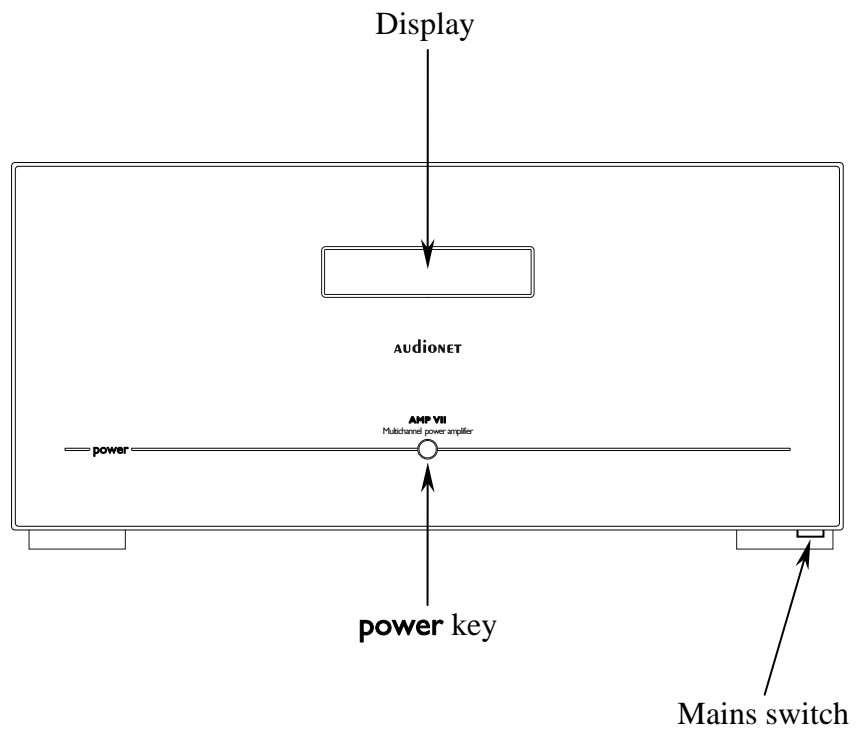


Important

- Please transport the AMP VII only in the included package.
- Always use the plastic bag to prevent scratches on the housing.
- Please allow the AMP VII to adapt to the climatic conditions in your listening room before you switch on the unit for the first time after transport.

2 Overview control elements

2.1 Frontpanel

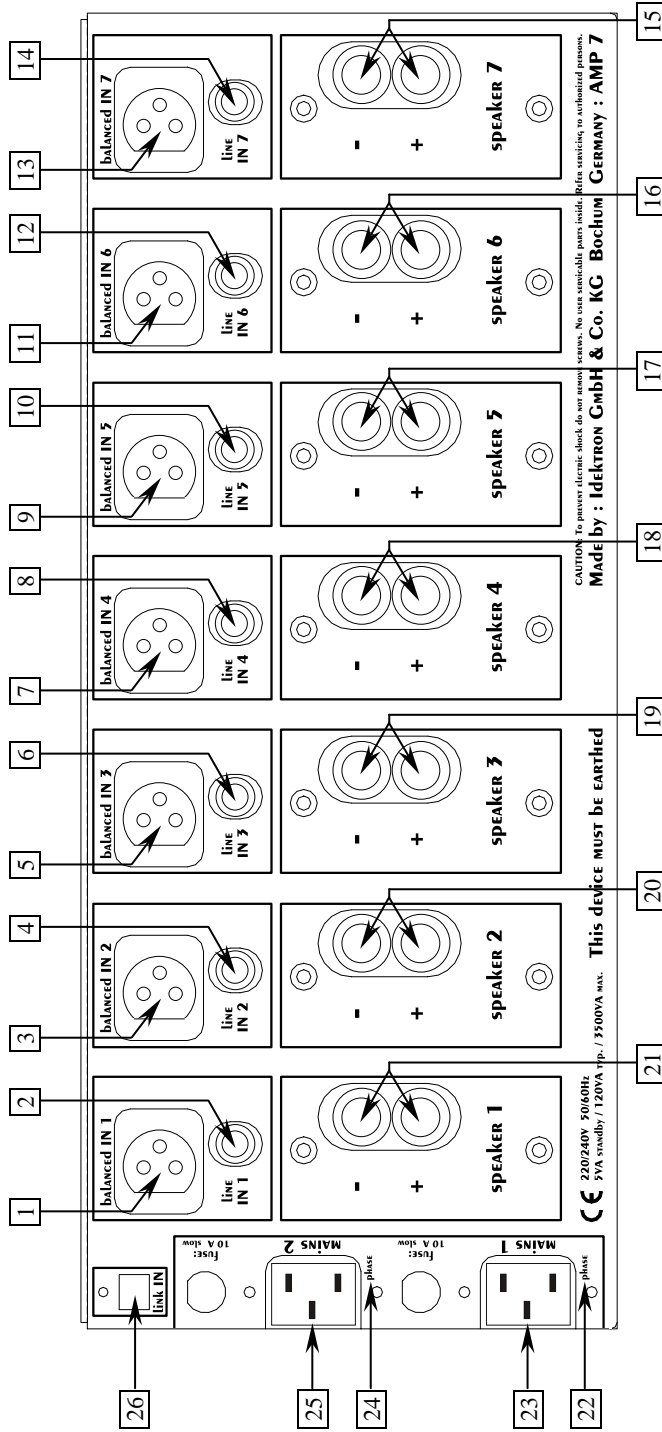


Note

- The mains switch is located at the front right side on the bottom of the unit.

3 Overview connections

3.1 Back panel



- | | | | | | |
|---|--------------------------------|----|--------------------------------|----|----------------------------|
| 1 | Balanced (XLR) input channel 1 | 9 | Balanced (XLR) input channel 5 | 18 | Speaker terminal channel 4 |
| 2 | Cinch input channel 1 | 10 | Cinch input channel 5 | 19 | Speaker terminal channel 3 |
| 3 | Balanced (XLR) input channel 2 | 11 | Balanced (XLR) input channel 6 | 20 | Speaker terminal channel 2 |
| 4 | Cinch input channel 2 | 12 | Cinch input channel 6 | 21 | Speaker terminal channel 1 |
| 5 | Balanced (XLR) input channel 3 | 13 | Balanced (XLR) input channel 7 | 22 | Marking mains phase 1 |
| 6 | Cinch input channel 3 | 14 | Cinch input channel 7 | 23 | Mains input 1 |
| 7 | Balanced (XLR) input channel 4 | 15 | Speaker terminal channel 7 | 24 | Marking mains phase 2 |
| 8 | Cinch input channel 4 | 16 | Speaker terminal channel 6 | 25 | Mains input 2 |
| | | 17 | Speaker terminal channel 5 | 26 | Audionet Link input |

4 Installation and power supply



Important

- For connecting or removing loudspeakers and/or the pre amplifier your AMP VII must be switched off to prevent damage to the amplifier or the connected units.
- Please make sure that all cables are in absolute best conditions! Broken shields or short-cut loudspeaker cables could damage speakers and/or amplifiers.

4.1 Placement

The compact design of the AMP VII requires the unobstructed heat dissipation during operation. Please mind the following security notes:



Important

- Please find a place for your Audionet AMP VII that is sufficiently ventilated to allow the heat to dissipate.
- Do not cover the ventilation slots of the unit.
- Please make sure that the microprocessor controlled fan units on the bottom side of the AMP VII are able to intake cool air without any obstruction. Particularly avoid placing the unit onto soft surfaces like furry carpets or similar squashy materials the AMP VII might sink in.
- We strongly advise you not to operate the AMP VII inside a confined space, e.g. small cabinets.
- Do not expose the unit to direct sunlight.
- Do not place the AMP VII in close range to heat sources like radiators or fan heaters.
- Due to the heavy weight of the AMP VII, please check the carrying capacity of your rack or table before placing the unit onto it.

4.2 Mains connection

Both mains inputs 23^{*} and 25 are on the back panel of the AMP VII. To connect the unit to mains use the included cords. If you prefer to use different power cords make sure they meet the specifications for your home country.

^{*} see numbers in section 'Back panel' on page 8



Important

- Always use both mains connections.
- The electrical specifications of your home country must meet the electrical specifications printed onto the back panel.
- The AMP VII is a Class I unit and must be earthed. Please ensure a stable earth connection. Phase ('hot' pin) is marked '**PHASE**' (22 and 24) on the back panel for each mains input.
- If you connect the mains cords please make sure that the mains switch on the bottom of the unit (see section '*Frontpanel*' on page 7) is switched off.
- Never pull the mains plug(s) while the AMP VII is switched on! Before you pull the mains cord(s) off their sockets, power down the unit to stand-by mode and switch off the mains switch on the bottom side.

Only in cases of extended absence (like vacations) or if massive trouble on the mains power is to be expected you should switch off the AMP VII. To disconnect the unit completely from mains pull both mains plugs.



Tipp

- Using high-quality mains cords may improve the sound quality. Please consult your local Audionet dealer.

4.3 Orientation of mains plug

The correct polarization of mains is important for reasons of audio clarity and stability. Please connect the mains cord so that the hot pins of the wall outlets are connected to the pin of the mains inputs 23 und 25 marked '**PHASE**' 22 and 24.



Note

- Your Audionet AMP VII is able to detect a wrong polarization of both mains plugs during start-up. When you switch on the unit from stand-by mode using the **power** key on the front panel, the AMP VII will issue the warning

Att.: Mainsphase

No.1 Incorrect!

if the mains plug to mains input **MAINS1** 23 has the wrong orientation and/or

Att.: Mainsphase

No.2 Incorrect!

if the mains plug to mains input **MAINS2** 25 has the wrong orientation. In this case please switch off the unit with the **power** key to stand-by mode. Then disconnect it from mains with the mains switch on the bottom side. Now, flip the mains plug with the wrong orientation in the wall outlet (see section '*Mains phase detection*' on page 14).

5 Inputs and outputs



Important

- For connecting or removing loudspeakers and/or the pre amplifier your AMP VII must be switched off to prevent damage to the amplifier or the connected units.
- Please make sure that all cables are in absolute best conditions! Broken shields or short-cut loudspeaker cables could damage speakers and/or amplifiers.

5.1 Inputs

At first, connect your pre amplifier to inputs 1 to 14 (depending on the number of modules) of your AMP VII. For each channel (module) you may choose to use Cinch or balanced (XLR) cables alternatively. For cable lengths exceeding 10 m we recommend the use of balanced cables.



Important

- Do not forget to select the inputs you are using in the setup menu (see section '*Set Input*' on page 21).
- The input may be selected for each channel individually.

5.2 Speaker terminals

Now connect your speakers to the gold plated terminals 15 bis 21 on the back panel of the AMP VII. You can use both banana plugs or spades as well as simple cable ends.



Note

- Look out for the correct connection of your speaker cables. Usually the terminals of your speakers are marked '+' and '-'. The AMP VII uses the same marks.
- Wrong speaker polarization will result in severe loss of sound quality!



Important

- **Although the AMP VII has an effective protection system to prevent damage to the circuits, switch off the unit while working on the speakers and/or audio cables.**
- The nominal loudspeaker impedance should be 2 Ohms or higher.
- Never use force or tools tightening the terminal screws.



Tip

- If your speakers support bi-wiring, use two separate cables to connect each speaker to the AMP VII. Impulse response and spatiality may improve significantly.



Note

- Again, please mind the correct polarization of the speakers!

5.3 Audionet Link

For your convenience, the AMP VII can be controlled remotely by one of Audionet's multichannel pre amplifiers (e.g. MAP or MAP 1) as well as one of Audionet's stereo pre amplifiers (e.g. PRE or PRE 1) using the 'Audionet Link' interface.

You only need a simple optical 'Toslink' cable to connect the 'Audionet Link' output of your Audionet pre amplifier to the 'Audionet Link' input **link IN** [26] of the AMP VII.

6 Operating

6.1 Powering up

First of all, please make sure your AMP VII is connected correctly to your pre amplifier, speakers and mains (see section '*Installation and power supply*' on page 9 und Section '*Inputs and outputs*' on page 11).

The AMP VII is a stand-by unit. Please operate the mains switch on the bottom side. The display shows for a brief moment a welcome message. After that the AMP VII is in stand-by mode. The display indicates the stand-by mode either with the text **off** or with a small dot (pixel) in the display (see section '*Set Off-Text*' on page 22).

Only in cases of extended absence (like vacations) or if massive trouble on the mains power is to be expected it is recommended to disconnect the AMP VII from mains. Operate the mains switch on the bottom side to switch off the unit from mains. The display goes dark.



Important

- **Never pull the mains cord(s) while the AMP VII is switched on! Before you operate the mains switch on the bottom side or pull the mains plug, power down the unit to stand-by mode first.**

6.2 Switching on/off

To power up the AMP VII from stand-by mode, press the **power** key on the front panel. The AMP VII issues the message:

Waking up...

In case the mains plug(s) has/have the incorrect polarization a warning will appear in the display (see section '*Mains phase detection*' on page 14). After that the unit powers up all installed amplifier modules sequentially. As soon as all modules are up and running the speaker outputs are enabled. The unit informs the user of all active channels and is now in normal operating mode.

If you would like to switch off the unit, please press the **power** key on the front panel. The display shows the message:

Going to sleep...

which then will be replaced after a short moment by:

**DISCHARGING NOW
please wait...**

until the power supplies of all modules in the AMP VII are discharged

completely. The unit is now in stand-by mode, and the display shows the selected stand-by text (see section '*Set Off-Text*' on page 22).



Note

- Please wait until the end of the discharging process, before you switch on the AMP VII again by pressing the **power** key on the front panel.

6.3 Mains phase detection

The correct polarization of mains is important for reasons of audio clarity and stability. Please connect the mains cords that the 'hot' pin of the wall outlet is connected to the pins marked '**phase**' [22] and [24] of the mains inputs [23] and [25]. The AMP VII recognizes the incorrect polarization of the mains plug automatically. Right after switching on the unit from stand-by mode by pressing the **power** key on the front panel the following message appears in the display in case mains input [23] has the wrong polarization:

**Att.: Mainsphase
No.1 Incorrect!**

or in case mains input [25] has the wrong polarization:

**Att.: Mainsphase
No.2 Incorrect!**

If you read the above message(s), power down the unit by pressing the **power** key. Please wait until the display no longer reads:

**DISCHARGING NOW
please wait...**

Disconnect the AMP VII from mains by operating the mains switch on the bottom side. Now pull the mains plug(s) with the wrong polarization and re-insert it/them rotated by 180°.

If you switch on the unit again, the warning(s) should not appear.



Important

- If the AMP VII issues the polarization warning or no warning at all for both positions of the mains plugs, check the connection to earth of your mains sockets and mains cords. **You have to ensure a stable connection to earth for the mains phase detection of the AMP VII to work correctly!**

6.4 Using Audionet Link

If your AMP VII is connected to an Audionet pre amplifier via 'Audionet Link', use the remote control of the pre amplifier to automatically switch on/off the AMP VII (and all other units connected via 'Audionet Link').

For setting up the necessary connections please refer to section '*Audionet Link*' on page 12.



Note

- Some Audionet units forward the 'switch on' signal over the Audionet interface with a small delay to avoid all units switching on at the same moment, which could cause an overload of your mains fuse. Please consult the manual of your other Audionet units for further information.
- Independently from the 'Audionet Link' interface, you can switch on/off your AMP VII at any time using the **power** key on the front panel.

6.5 AutoStart function

If the AutoStart function is active, the AMP VII starts up automatically to normal operating mode and does not stay in stand-by mode right after the unit is connected to mains power (e.g. by operating the mains switch on the bottom side). Use this option to start up the AMP VII automatically using a timer device. For further details please refer to section '*Set AutoStart*' on page 22.

6.6 Warm Up countdown

While you are absent the AMP VII can switch on automatically after a preselected time (15 minutes up to 99 hours and 45 minutes) and is then preheated and ready for a listening session when you get back.

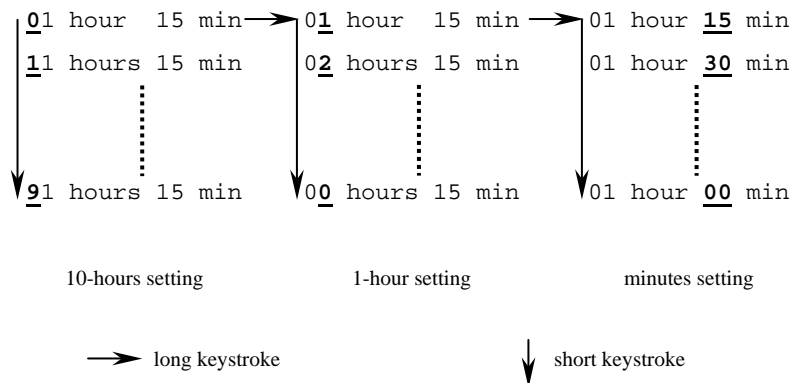
To setup the countdown clock press the **power** key on the front panel longer than 2 seconds (= long keystroke) while the AMP VII is in stand-by mode. The display shows:

WARM UP IN :
01 hour 15 min

The cursor marks the digit of the countdown time to edit. A long keystroke moves the cursor one digit to the right.

Use short keystrokes (= press key less than 2 seconds) on the **power** key to set the desired digit. Hours can be programmed in steps of 1 hour,

minutes in steps of 15 min. The following diagram explains the possible countdown timer settings:



Activate the countdown timer by leaving the timer setup menu with a long keystroke. Alternatively, the countdown is started automatically if you do not change any settings for longer than 12 seconds.



Note

- While the countdown is running, the display shows the remaining time until automatic start-up:

**WARM UP IN :
02 hours 43 min**

- If the display saver is active, the display shows the remaining countdown time abbreviated (e.g. **02:43**). Please refer to section 'Set Dim Level' on page 20 for detailed information on the display saver.

If you would like to use the countdown timer again, simply activate it by a long keystroke: While in stand-by mode press the **power** key longer than 2 seconds and wait. After 12 seconds the countdown will start again with the previous programmed time.

To de-activate a running countdown just press the **power** key for less than 2 seconds at any time.

7 Protection system

Your Audionet AMP VII protects your loudspeakers and itself with a complex protection circuitry. In case of a malfunction the display informs the user about the nature of the detected error in plain text. Furthermore, the unit also reports which module caused the error.

Example:

**DC VOLTAGE IN:
Amp Module No. 5**

This means a 'DC Voltage' error was detected in module no. 5.

The following table gives an overview of error messages:

Error message	Possible cause
Overload	short circuit or defective speaker
Overheating	ventilation slots covered
High Freq.	defective pre amplifier
DC Voltage	exceeding DC level at the output: defective pre amplifier or source unit
Power Failure!	(temporary) breakdown of mains

Even after powering down the AMP VII, the error message will still be in the display. Press the **power** key on the front panel to reset the display to indicating the stand-by mode.



Note

- Mains is monitored for all modules globally, so that in case of the error **Power Failure!** no module number is displayed.
- The error message **Multiple Errors in Amp Modules!** means that multiple errors occurred simultaneously in different modules.



Important

- Remove cause of error prior to switching on the AMP VII again!

8 Setup menu

Beyond the feature of the 'Warm Up Countdown' you can adjust the AMP VII to your preferences using the setup menu.

List of settings adjustable according to your preferences:

- Brightness of display (**Set Dim Level**)
- Display mode (**Set Display**)
- Input selection (set individually for each amplifier module): Cinch or balanced (**Set Input**)
- AutoStart function: automatic start for timer control (**Set AutoStart**)
- Selection of stand-by indicator (**Set Off-Text**)

Press the **power** key on the front panel longer than 2 seconds (= long keystroke) to enter the setup menu. Use a short keystroke (= less than 2 seconds) to navigate to the next menu item.

Select a menu item with a long keystroke. Now you can select your desired option with short keystrokes.

To leave a menu item hold down the **power** key longer than 2 seconds or simply wait longer than 12 seconds. If you would like to change more settings please re-enter the setup menu.

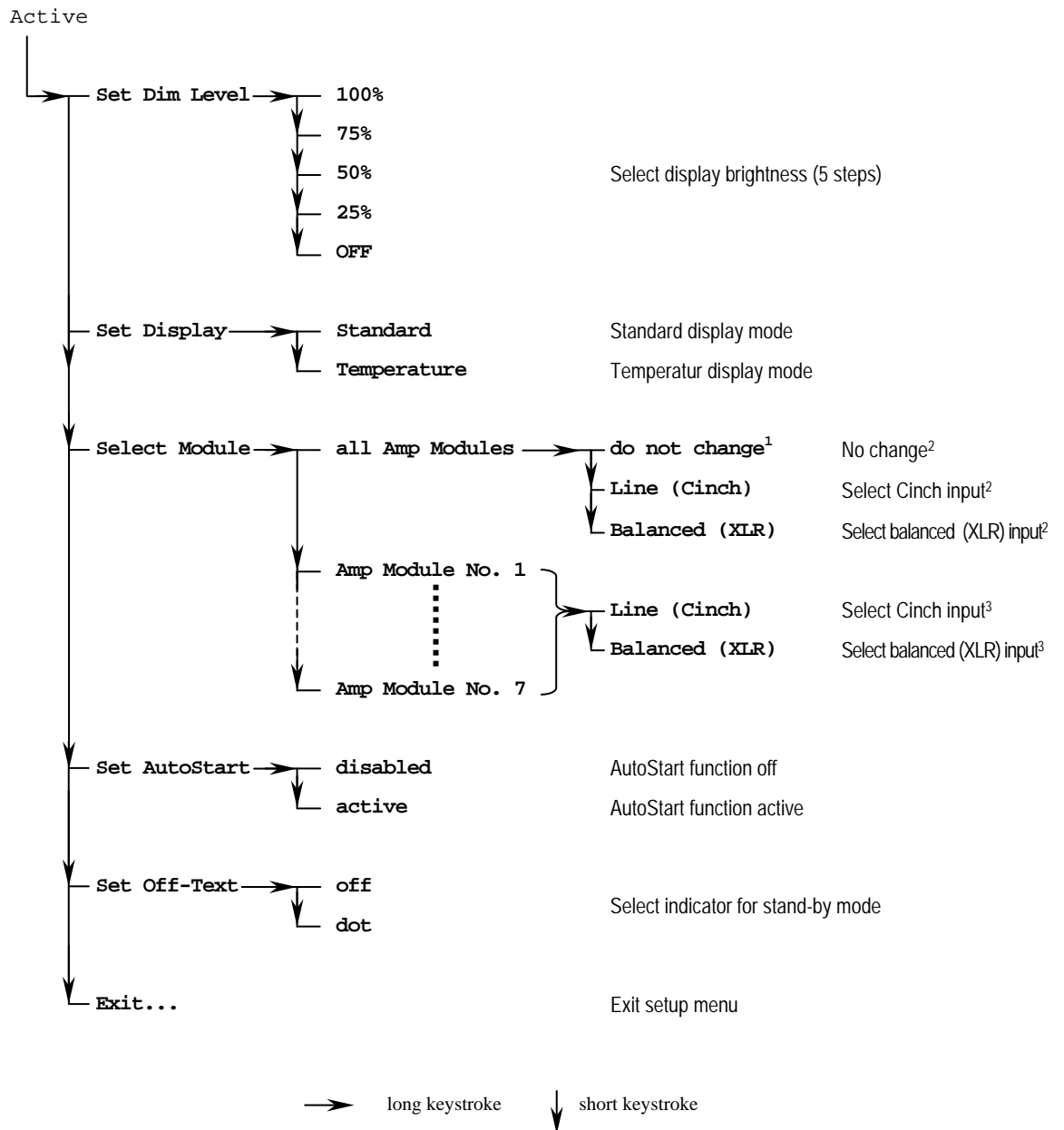
While you are in the main menu, get back to normal operating mode by waiting longer than 12 seconds or navigate to menu item **Exit...** and select it.



Note

- In case you stop editing any user settings the AMP VII leaves the setup menu automatically after 12 seconds and returns to normal operating mode.
- While you are in the setup menu the display brightness is adjusted to 100% for better readability. Leaving the setup menu resets the display brightness to the user selected level automatically.
- If you power down the unit to stand-by mode, all user settings are stored automatically in the non-volatile memory of the unit. Even after disconnecting from mains the AMP VII will still remember your settings.

The following diagram gives an overview of the structure of the setup menu. The subsequent sections explain all options of the setup menu in detail.



¹ menu item is only visible, if not all modules are setup to the same input

² select input for all modules simultaneously

³ select input for each module individually

8.1 Set Dim Level

Select the brightness of the display on the front panel. Five steps are available: 100%, 75%, 50%, 25% and OFF.



Important

- **Long-term usage of the display set to a maximum brightness (setting 100%) may cause extended signs of wear resulting in a decay of contrast or brightness of individual dots in the display. Do not use the display with a brightness set higher than the factory default of 50% over a longer period of time!**



Note

- Is the brightness set to **Off** the display is only on during setup adjustments, powering up/down and while displaying an error message. It switches off automatically several seconds after the last user entry.
- The AMP VII activates the 'display saver' automatically after 10 minutes without any user entry.
- While the 'display saver' is active, the display shows, depending on the selected display mode (**Set Display**), either **Active** or the temperature of the AMP VII in the form of **Temp Cool/Ok/High**. The display brightness is automatically reduced to 25% , and the location of the information text changes randomly every 12 seconds to prevent any 'burn-in' effect of the display.
- The 'display saver' is de-activated, and the display returns to its normal mode as soon as any user entry is detected.
- The user cannot switch off the automatic 'display saver' function!

8.2 Set Display

Select the information the AMP VII displays while in normal operating mode. There are two modes available:

Standard The normal operating mode is indicated by:

Active
Multi-Channel In

Temperature During normal operating mode the AMP VII shows its working temperature in 3 steps:

Cool the AMP VII is cool,
Ok the AMP VII has its normal operating temperature,
High the AMP VII is working at a higher temperature under heavy load.



Note

- In case of thermal overload the AMP VII will always switch off independently from the display setting.
- The temperature display mode gives the user a clue about the thermal load of the AMP VII. It depends on the placement, air flow and cooling, surrounding temperature and the number of installed modules in the AMP VII. Nevertheless, the full musical performance is achieved even if the display reports **Temperature Cool**.

8.3 Set Input

The user can select the input for all modules simultaneously or individually. First, navigate to menu item **Select Module** and enter the sub menu **SET INPUT FOR** with a long keystroke on the **power** key.

Now use short keystrokes to select the module whose input you would like to configure:

- all Amp Modules** Use this setting if you would like to configure the input for all modules simultaneously. All modules will be set to the same input after the following configuration.
- Amp Module No. x** Select the module whose input you would like to configure individually. The input settings of all other modules are not affected after the following configuration.

Acknowledge the module selection with a long keystroke of the **power** key on the front panel. The AMP VII enters the sub menu **Set Input**.

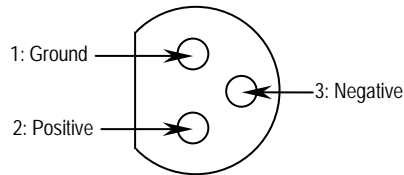
Now select the desired input:

- Line (Cinch)** Select this option if you connected your re amplifier to the Cinch input of the module.
- Balanced (XLR)** Select this option if you connected your pre amplifier to the balanced (XLR) input of the module.
- do not change** Select this option if you would like to exit the menu without any change. This option is only available if you selected **all Amp Modules** before and not all modules are set to the same input.



Tip

Pinning of the balanced (XLR) inputs:



The pins are marked with the same number as in the diagram above.

8.4 Set AutoStart

If the AutoStart function is active, the AMP VII starts up automatically to normal operating mode right after the unit is connected to mains power (e.g. by operating the mains switch on the bottom side). Use this option to start up the AMP VII automatically using a timer device.

disabled The AutoStart function is disabled. If you connect the AMP VII to mains power, the unit will start up to stand-by mode. To activate the AMP VII use the **power** key on the front panel or the Audionet Link interface.

active The AutoStart function is active. As soon as the AMP VII is connected to mains power, the unit starts up to normal operating mode automatically. Use this setting to control the AMP VII by a timer device.



Note

- In order to use the AutoStart function with a timer device, the mains switch on the bottom side has to be in position 'on' all the time. The connection to mains is switched by the timer device in this case.

8.5 Set Off-Text

Select here how the AMP VII indicates the stand-by mode:

off Stand-by mode is indicated by the text **off**.

dot Stand-by mode is indicated by a small dot (pixel) in the display.



Note

- Approx. every 12 seconds the stand-by mode indicator changes position randomly in the display to prevent any 'burnin' effect (see section '*Set Dim Level*' on page 20).

8.6 Overview factory defaults

Option	Einstellung
SET DIM LEVEL	50%
SET DISPLAY	Standard
SET INPUT	Line (Cinch)
SET AUTOSTART	disabled
SET OFF-TEXT	dot



Note

- The Warm Up countdown is preset to 1 hour and 15 minutes, but deactivated (see section '*Warm Up countdown*' on page 15).

9 Technical information

9.1 Design

To optimize the high frequency properties the circuitry was consequently miniaturized and SMD technology implemented. Signal path ways are limited to a minimum length and contain no componets harmful to the quality of sound like coupling capacitors, coils or relays. The construction is optimized magnetically and capacitively. Influences of interferences and interaction between amplifier stages are extensively ruled out. The signal cables are made of pure silver and gold metallurgy.

9.2 Circuitry

The input stage is designed as a double differential amplifier with a low-noise monolithic double-FET. The gain-bandwidth product of the input stage is greater than 1 GHz. Double-boot-strapping decouples the input from the power stage. The power stage consists of four Power-MOSFETs. A complex correction circuit locally compensates distortion in real-time.

9.3 Power supply

Each amplifier module has its separate power supply with a toroid transformer with a power of 600 VA. Shottky rectifiers drive six high current capacitors with a capacity of 49,200 μF for each channel resulting in a total capacity of almost 345,000 μF for an AMP VII equipped with 7 channels.

9.4 Handling

The microprocessor controls all functions and constantly monitors DC level, high frequency, temperature and overload and switches off the AMP VII from mains in case an error is detected. The display issues error messages in plain text. Automatic power on/off is provided via the Audionet Link interface. User configurable inputs are switched by gold plated high precision relays.

10 Security advice



Important

- Avoid packaging material, especially plastic bags, coming into children's hands!
- Store and operate the unit in a dry room at a reasonable room temperature only!
- Avoid moisture, any liquids, dirt or small objects getting into the unit!
- Set up the unit in a sufficiently ventilated environment!
- Do not cover the unit!
- Do not open the unit. Unauthorised opening will void warranty!
- Do not short-circuit the outputs!
- During connecting or removing loudspeakers and/or the pre amplifier your AMP VII must be switched off to prevent damage to the amplifier or the connected units.
- Use dry cloth for cleaning!

We would like to wish you many exciting listening experiences with your new Audionet product.

If you still have any questions, do not hesitate to ask your competent Audionet dealer or contact us directly.

11 Technical data

Function	Modular microprocessor controlled 7-channel power amplifier
Power (per channel)	150 Watts in 8 Ohms 250 Watts in 4 Ohms 360 Watts in 2 Ohms
Frequency response	2 – 300.000 Hz (-3dB)
THD+N	> 107 dB @1 kHz (25 Watts / 4 Ohms)
SNR	> 122 dB (A weighted)
Inputs	1 Cinch, WBT, gold plated (per channel) 1 Balanced (XLR), Neutrik, gold plated (per channel) 1 Audionet Link, optical
Input impedance	Cinch: 37 kOhm, 150 pF Balanced (XLR): 3 kOhm, 170pF
Outputs	1 pair of speaker terminals, gold plated (per channel) 1 Audionet-Link, optical
Mains	2 x 230 V, 50..60 Hz
Power consumption	5 Watts Stand by, 1200 Watts typ., 3500 Watts max.
Dimensions	Width: 430 mm Height: 196 mm Depth: 430 mm
Weight	58 kg
Finish	Front: brushed aluminium, 10 mm black anodized, white print or 'aluminium nature' anodized, black print Display: red or blue Top: aluminium, black anodized, 6 mm Sides: aluminium, black anodized, 4 mm Chassis: steel, black coated
Features	<ul style="list-style-type: none"> - microprocessor controlled protection system - automatic mains phase detection - 2-lines vacuum fluorescent display - remote control via Audionet Link (optical) - timer function (Warm Up countdown) - AutoStart function for Timer control

Errors and omissions excepted. Specifications and design are subject to changes without prior notice.

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