



Achat 110, 112, 115 MA MKII

Active Speaker

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1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under ➔ www.thomann.de.

1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
DANGER	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.

Signal word	Meaning
CAUTION	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – danger zone.
	Warning – high-voltage.
	Warning – suspended load.

2 Safety instructions

Intended use

This device is designed as a PA system. The device is designed for professional use only and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



DANGER

Danger to life due to electric current!

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment or optical components are missing or damaged.



DANGER

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use proper ready-made insulated mains cabling (power cord) with a safety plug. Do not modify the mains cable or the power plug. If the power cable or plug is damaged, switch off the power supply immediately and replace the power cable with an identical power cable available from the manufacturer. Make sure that the device is always earthed. If in doubt, contact a qualified electrician.



WARNING

Possible hearing damage due to operating the device at a high volume!

The device can produce volume levels that, when operated at a high volume, may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Avoid operating the device at excessively high volumes over an extended period of time. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance or use adequate ear-muffs.

 NOTICE**Risk of fire due to covered vents and neighbouring heat sources!**

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can overheat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

 NOTICE**Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors under the ambient conditions specified in this document. Avoid operating it in environments subject to direct sunlight, heavy pollution and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

 NOTICE**Damage to the device due to high voltages!**

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.



NOTICE

Risk of fire by exceeding the maximum current!

The device can supply power to other devices of identical design and connected in series. If too many devices are connected, the maximum permitted power consumption can be exceeded, which can cause the device to overheat and burst into flames. Only connect devices of identical design to the device. When deciding how many devices you can connect in series, make sure that the maximum output current specified on the device and in the “Technical specifications” chapter of the user manual is not exceeded. Only use power cords with a cable cross-section designed for the required current intensity when connecting the devices in series.



NOTICE

Possible staining due to plasticiser in rubber and foam feet!

The plasticiser in the feet of this product may react with the coating of the floor, resulting in permanent dark stains after a while. If necessary, use a suitable mat or felt pads to prevent direct contact between the product's feet and the floor.

3 Features

Achat 110 MA MKII

Special features of the device:

- 1 × 10" woofer
- 1 × 1" tweeter
- 2 × XLR/6.35 mm jack combo socket (line and microphone input)
- 1 × XLR line output (Mix)
- Lockable in and output socket (Power Twist)
- Switchable presets (bass boost / flat / 120 Hz HPF)
- 2-band EQ
- Standby function
- Black textured paint
- 36 mm stand flange
- M10 truss points
- Protective cover (optionally available, item no. 243783)
- U-bracket for wall and ceiling mounting (optionally available, item no. 258813)
- Flight case (optionally available on request)
- Developed in Germany

Achat 112 MA MKII

Special features of the device:

- 1 × 12" woofer
- 1 × 1.75" midrange tweeter
- 2 × XLR/6.35 mm jack combo socket (line and microphone input)
- 1 × XLR line output (Mix)
- Lockable in and output socket (Power Twist)
- Switchable presets (bass boost / flat / 120 Hz HPF)
- 2-band EQ
- Black textured paint
- 36 mm stand flange
- Flight rail on the top
- Attachment eyelet on the rear side
- Protective cover (optionally available, item no. 243017)
- U-bracket for wall and ceiling mounting (optionally available, item no. 258814)
- Flight case (optionally available, item no. 280589)
- Developed in Germany

Achat 115 MA MKII

Special features of the device:

- 1 × 15" woofer
- 1 × 1.4" tweeter
- 2 × XLR/6.35 mm jack combo socket (line and microphone input)
- 1 × XLR line output (Mix)
- Lockable in and output socket (Power Twist)
- Switchable presets (bass boost / flat / 120 Hz HPF)
- 2-band EQ
- Black textured paint
- 36 mm stand flange
- Flight rail on the top
- Attachment eyelet on the rear side
- Protective cover (optionally available, item no. 249422)
- U-bracket for wall and ceiling mounting (optionally available, item no. 258815)
- Flight case (optionally available, item no. 451589)
- Developed in Germany

4 Installation and starting up

Unpack and check carefully that there is no transportation damage before using the unit. Keep the packaging. To fully protect the product against vibration, dust and moisture during transport or storage, use the original packaging or your own packaging material suitable for transport or storage.

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.



WARNING

Risk of injury from falling speakers that were inadequately secured!

If speakers are not properly secured when mounted, they can cause severe injury and considerable damage by falling.

Always secure portable sound systems (speakers) with two independent safety devices, for example with safety cables.



WARNING

Risk of injury due to improper installation!

Improper mounting can lead to serious injuries and significant damage to property.

When installing and operating, make sure to follow the standards and regulations that apply in your country. In Germany, this is DGUV regulation 17 "Staging and Production Facilities for the Entertainment Industry".

Ensure that speakers are only mounted by trained specialists.



CAUTION

Risk of injury due to heavy weight!

The device is heavy. Lifting and dropping it during transport and installation can cause injuries.

Make sure at least two people work together when transporting and installing the device.



NOTICE

Possible property damage to adjacent devices due to magnetic fields.

Speakers generate a static magnetic field. This magnetic field can affect other neighbouring units and in unfavourable cases damage them.

Ensure that speakers are always a sufficient distance away from sensitive equipment that may be affected by an external magnetic field.



NOTICE

Potential property damage due to unsuitable stands!

If the product is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage.

Only use stands whose maximum load-bearing capacity is at least as high as the weight of the product. Always ensure that the stand is stable.

4.1 Tips on handling speakers

Always set up the speakers so that their sound signals can reach the audience without obstruction. It will often be helpful to mount the speakers on stands. This allows the sound to spread evenly and with maximum range throughout the audience area. Subwoofers, on the other hand, should be placed on the ground to ensure the best possible low-frequency sound propagation.

Only use high-quality cables to connect your devices. This is the only way to ensure optimum sound quality.

Audible distortions during operation indicate that the speaker is overloaded. To avoid permanent damage, reduce the volume immediately.

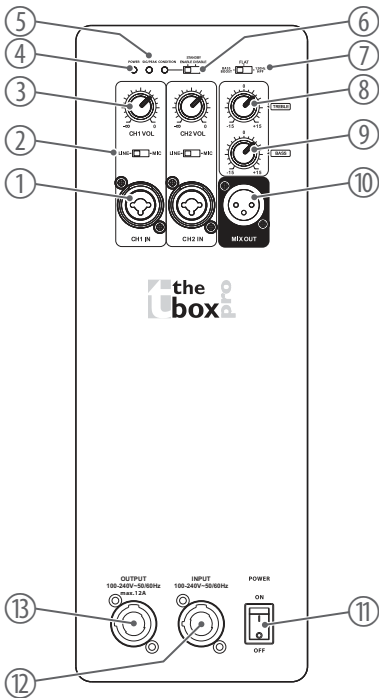
4.2 Suspending the speaker

For suspension of the speaker from special mounting devices (referred to as “flying” in the event technology business), the top of the housing of the Achat 112 and Achat 115 MA MKII is quipped with Aeroquip or fly tracks. Safety eyelets (double studs) can be screwed or latched into these tracks. The Achat 110 MA MKII is equipped with M10 flight points for suspension. Check that the speaker is securely connected to the respective suspension before using it in “truss mode”.

For tilting the box use an additional eye on the rear side of the housing. This additional eye must not bear the whole weight of the spotlight.

5 Connections and controls

Achat 110 MA MKII

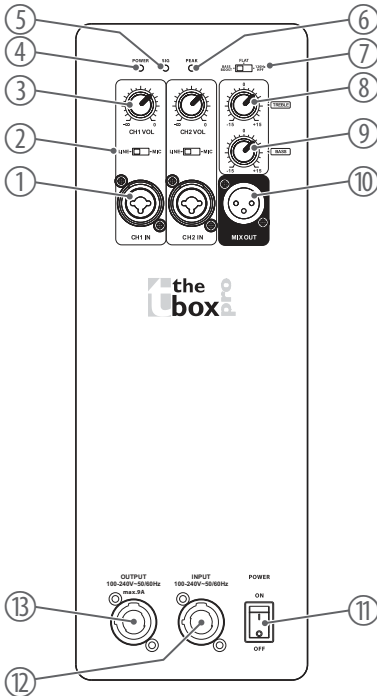


If the device is not used for 15 minutes, it automatically enters standby mode.

- 1 [CH1 IN]/[CH2 IN] | Input, designed as an XLR/6.35 mm jack combo socket
- 2 [LINE – MIC] | Switches the sensitivity of the respective input between microphone and line level.
- 3 [CH1 VOL]/[CH2 VOL] | Controls the volume for the respective channel. Turn the control clockwise to increase the volume. Turn the control anti-clockwise to reduce the volume.
- 4 [POWER] | LED on: The device is on.
- 5 [SIG/PEAK] | LED display of the input signal
 - Lights up green: At least one input signal is present.
 - Lights up red: The level of the respective input signal is too high (overdrive).
- 6 [STANDBY] | [ENABLE] or [DISABLE] standby mode. If you have activated the standby function and the device receives no signal for 15 minutes, it automatically switches to standby mode. As soon as the device receives a signal again it switches back to normal mode.

	<i>[CONDITION]</i> Power indicator ■ Lights up: The device is in normal operation. ■ Off: The device is in standby mode.
7	<i>[BASS BOOST]</i> Boosts the bass. <i>[FLAT]</i> Even frequency response <i>[120Hz HPF]</i> Lowers the frequencies below 120 Hz (high pass filter).
8	<i>[TREBLE]</i> Controls the treble. To increase the treble by up to 15 dB, turn the control clockwise. To reduce the treble by up to 15 dB, turn the control anti-clockwise.
9	<i>[BASS]</i> Controls the bass. To increase the bass by up to 15 dB, turn the control clockwise. To reduce the bass by up to 15 dB, turn the control anti-clockwise.
10	<i>[MIX OUT]</i> Line output for the mixed input signal of both channels, designed as an XLR panel connector
11	<i>[POWER ON/OFF]</i> Turns the device on and off.
12	<i>[INPUT]</i> Input for the power supply of the device, designed as a lockable Power Twist socket
13	<i>[OUTPUT]</i> Output for the power supply of another device, designed as a lockable Power Twist socket

Achat 112 & 115 MA MKII



- | | |
|----|--|
| 1 | [CH1 IN]/[CH2 IN] Input, designed as an XLR/6.35 mm jack combo socket |
| 2 | [LINE – MIC] Switches the sensitivity of the respective input between microphone and line level. |
| 3 | [CH1 VOL]/[CH2 VOL] Controls the volume for the respective channel. Turn the control clockwise to increase the volume. Turn the control anti-clockwise to reduce the volume. |
| 4 | [POWER] LED on: The device is on. |
| 5 | [SIG] Lights up: At least one input signal is present. |
| 6 | [PEAK] Lights up: The level of the respective input signal is too high (overdrive). |
| 7 | [BASS BOOST] Boosts the bass. |
| | [FLAT] Even frequency response |
| | [120Hz HPF] Lowers the frequencies below 120 Hz (high pass filter). |
| 8 | [TREBLE] Controls the treble. To increase the treble by up to 15 dB, turn the control clockwise. To reduce the treble by up to 15 dB, turn the control anti-clockwise. |
| 9 | [BASS] Controls the bass. To increase the bass by up to 15 dB, turn the control clockwise. To reduce the bass by up to 15 dB, turn the control anti-clockwise. |
| 10 | [MIX OUT] Line output for the mixed input signal of both channels, designed as an XLR panel connector |
| 11 | [POWER ON/OFF] Turns the device on and off. |

12	<i>[INPUT]</i> Input for the power supply of the device, designed as a lockable Power Twist socket
13	<i>[OUTPUT]</i> Output for the power supply of another device, designed as a lockable Power Twist socket

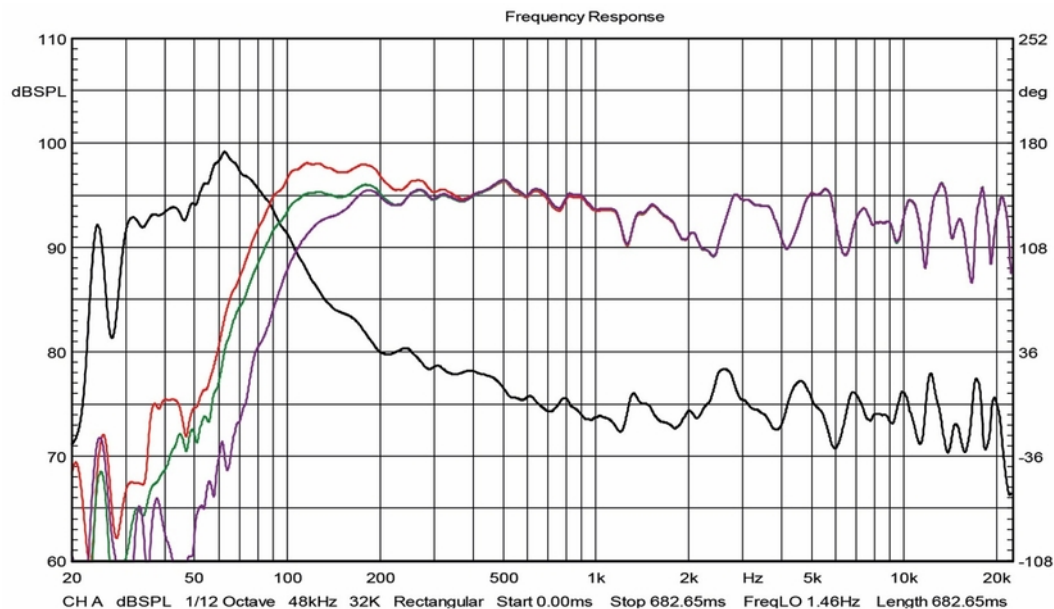
6 Technical specifications

Achat 110 MA MKII

System	Active 2-way full-range speaker with built-in crossover	
Amplifier class	D	
Configuration	Woofer	1 × 10" woofer (ferrite) with 3" voice coil
	Tweeter	1 × 1" compression driver (ferrite) with 1" voice coil
Input connections	Power supply	1 × lockable input socket (Power Twist)
	Mic/line	2 × XLR/6.35-mm jack combo socket
Input sensitivity	Line	1 V (RMS) ± 10%
	Mic	20 mV ± 10%
Input impedance	Line	> 20 kΩ
	Mic	> 1 kΩ
Output connections	Power supply for further devices	1 × lockable output socket (Power Twist) Combined output current, max.: 12 A
	Line	1 × XLR panel plug

Frequency range	70 Hz...20 kHz, –10 dB	
	55 Hz...20 kHz, –3 dB	
Crossover frequency	2.8 kHz	
Output power	RMS: 140 W	
	Peak: 550 W	
Max. sound pressure level	120 dB	
Beam angle (H × V)	90° × 60°	
Power consumption	13.5 W ± 3 W (static)	
Supply voltage	100 – 240 V ~ 50/60 Hz	
Dimensions (W × H × D)	300 mm × 450 mm × 290 mm	
Weight	12.6 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Frequency response



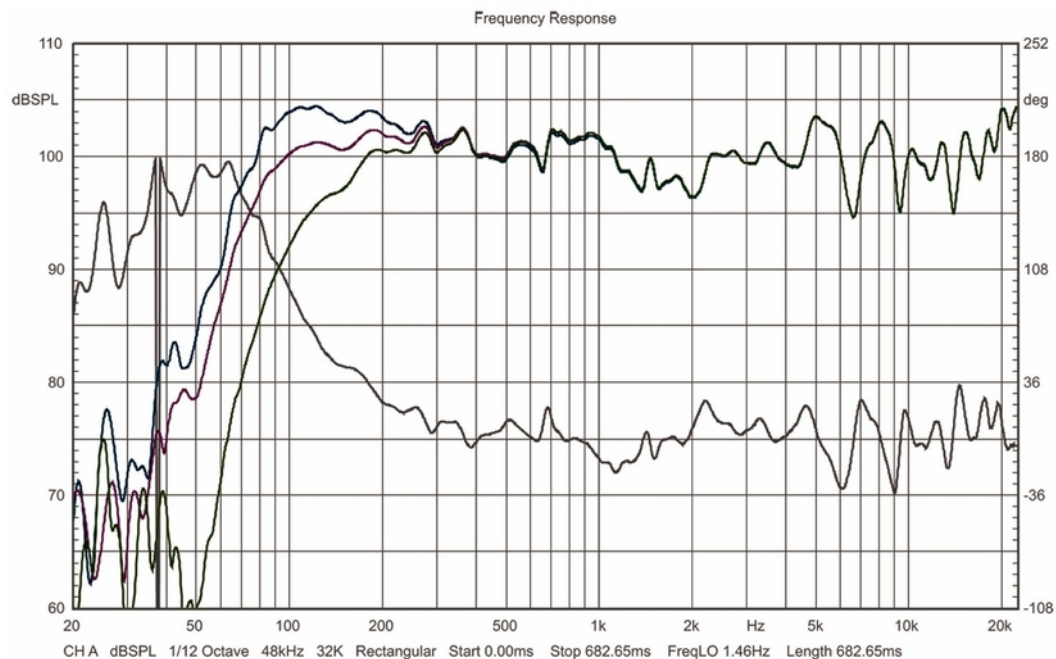
Achat 112 MA MKII

System	Active 2-way full-range speaker with built-in crossover	
Amplifier class	D	
Configuration	Woofer	1 × 12" woofer (ferrite) with 3" voice coil
	Tweeter	1 × 1.75 " midrange tweeter (ferrite) with 1" voice coil
Input connections	Power supply	1 × lockable input socket (Power Twist)
	Mic/line	2 × XLR/6.35-mm jack combo socket
Input sensitivity	Line	1 V (RMS) ± 10%
	Mic	20 mV ± 10%
Input impedance	Line	> 20 kΩ
	Mic	> 1 kΩ
Output connections	Power supply for further devices	1 × lockable output socket (Power Twist) Output current, max.: 9 A
	Line	1 × XLR panel plug
Frequency range	60 Hz...20 kHz, –10 dB	
	65 Hz...20 kHz, –3 dB	
Crossover frequency	2.8 kHz	

Technical specifications

Output power	RMS: 350 W	
	Peak: 1,400 W	
Max. sound pressure level	126 dB	
Beam angle (H × V)	60° × 40° (rotating horn)	
Power consumption	16.5 W ± 3 W (static)	
Supply voltage	100 – 240 V ~ 50/60 Hz	
Dimensions (W × H × D)	360 mm × 600 mm × 365 mm	
Weight	20.7 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Frequency response

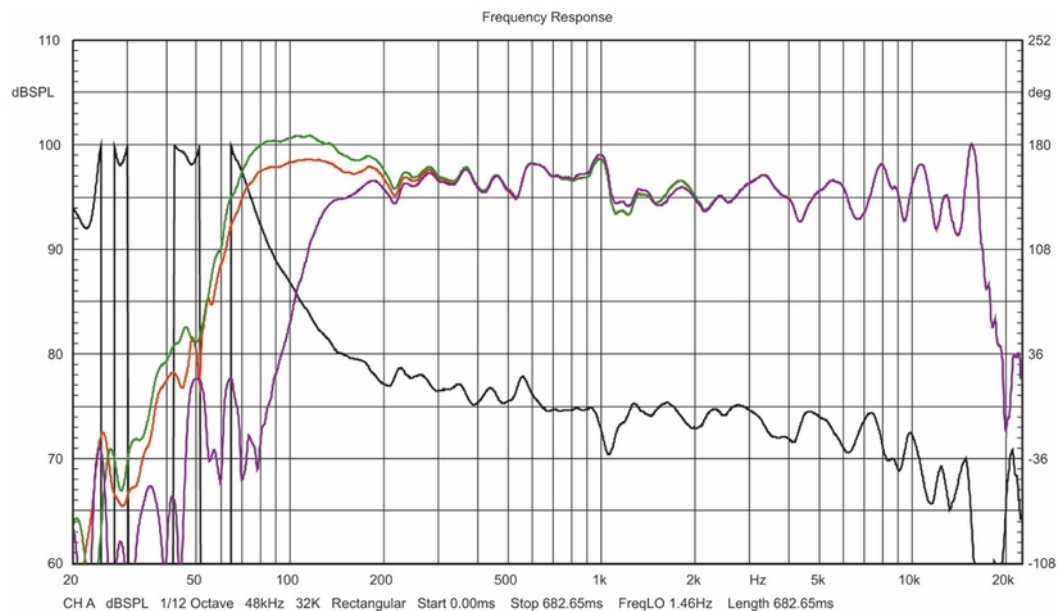


Achat 115 MA MKII

System	Active 2-way full-range speaker with built-in crossover	
Amplifier class	D	
Configuration	Woofer	1 × 15" woofer (ferrite) with 4" voice coil
	Tweeter	1 × 1.4" compression driver (ferrite) with 1.5" voice coil
Input connections	Power supply	1 × lockable input socket (Power Twist)
	Mic/line	2 × XLR/6.35-mm jack combo socket
Input sensitivity	Line	1 V (RMS) ± 10%
	Mic	20 mV ± 10%
Input impedance	Line	> 20 kΩ
	Mic	> 1 kΩ
Output connections	Power supply for further devices	1 × lockable output socket (Power Twist) Output current, max.: 9 A
	Line	1 × XLR panel plug
Frequency range	60 Hz...20 kHz, –10 dB	
	65 Hz...17 kHz, –3 dB	
Crossover frequency	2.8 kHz	

Output power	RMS: 350 W	
	Peak: 1,400 W	
Max. sound pressure level	130 dB	
Beam angle (H × V)	60° × 40°	
Power consumption	16.5 W ± 3 W (static)	
Supply voltage	100 – 240 V ~ 50/60 Hz	
Dimensions (W × H × D)	436 mm × 766 mm × 438 mm	
Weight	38.7 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Frequency response



Further information

	Achat 110 MA MKII (item no. 498103)	Achat 112 MA MKII (item no. 498102)	Achat 115 MA MKII (item no. 498105)
Housing	Wood		
Design	Standard		
Colour	Black		
Truss-capable	M10	Truss rail	
Monitor inclination	Yes		
Crossover points	2-way		
Media player	No		
Effect	No		
Rechargeable battery	No		
Master tone control	Yes		
Fan	No		
Remote control	No		
Low Cut	Yes		
Wireless hand/head microphone	No		

	Achat 110 MA MKII (item no. 498103)	Achat 112 MA MKII (item no. 498102)	Achat 115 MA MKII (item no. 498105)
Stand flange	36 mm		
Casters	No		
Wall mount	No		
Protective cover	Optional (item no. 243783)	Optional (item no. 243017)	Optional (item no. 249422)
U-bracket	Optional (item no. 258813)	Optional (item no. 258814)	Optional (item no. 258815)
Flight case	Optional on request	Optional (item no. 280589)	Optional (item no. 451589)

7 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

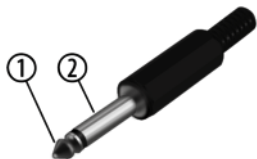
Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180° .

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)



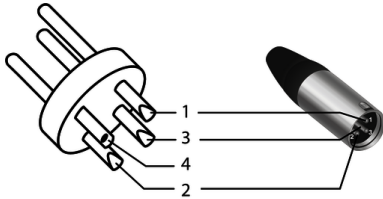
1	Signal
2	Ground, shielding

1/4" TRS phone plug (mono, balanced)



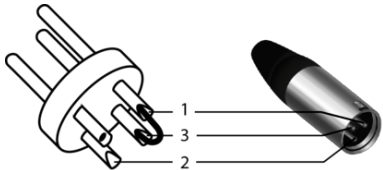
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

XLR plug (balanced)



1	Ground, shielding
2	Signal (in phase, +)
3	Signal (out of phase, -)
4	Shielding on plug housing (option)

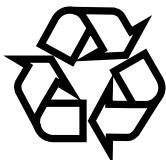
XLR plug (unbalanced)



1	Ground, shielding
2	Signal
3	Bridged to pin 1

8 Protecting the environment

Disposal of the packing material



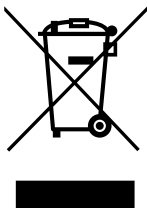
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on ➔ www.thomann.de.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. For example, use the classified ads of Thomann GmbH.

If your old device contains personal data, delete those data before disposing of it.

