



the
box **pro**

Mon A10, A12, A15
active monitor

Musikhaus Thomann
Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
E-mail: info@thomann.de
Internet: www.thomann.de

27.07.2015, ID: 309203

Table of contents

1	General notes.....	4
2	Safety instructions.....	7
3	Features.....	11
4	Installation.....	12
5	Connections and operating elements.....	14
6	Technical specifications.....	18
7	Plug and connection assignment.....	20
8	Troubleshooting.....	24
9	Protecting the environment.....	26

1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

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.
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 – high-voltage.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used in a sound reinforcement system. 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!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



CAUTION!

Possible hearing damage

The device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

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 sufficient ear protectors.



NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

The active monitors are suitable for amateur use in smaller rooms as well as professional use on very large stages.

Special features of the device:

- 2-way system: 1" tweeter and 10", (item no. 309203), 12", (item no. 309205) or 15" woofer (item no. 309207)
- Coaxially arranged driver combination
- Class-D amplifier
- Dual limiter
- XLR and phone connections
- Integrated flange for tripod mounting

4 Installation

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

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.



NOTICE!

Possible property damage by magnetic fields

Loudspeakers produce a static magnetic field. Therefore, maintain an appropriate distance to devices that can be adversely affected or damaged by an external magnetic field.



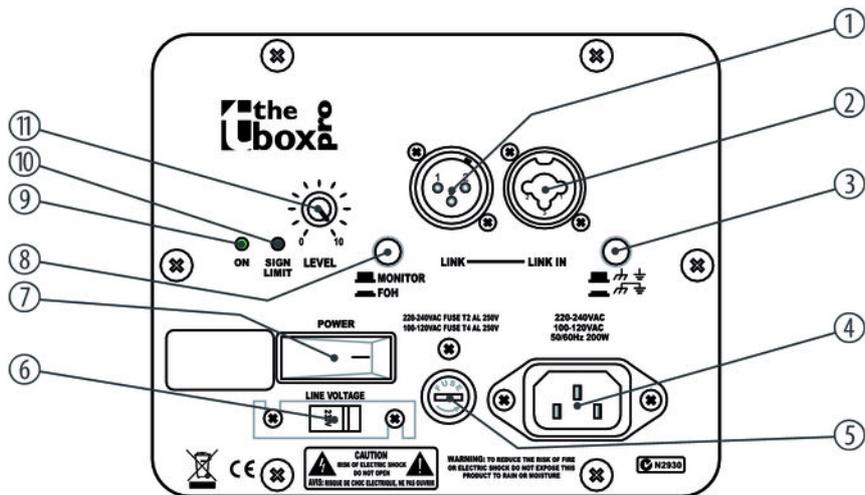
NOTICE!

Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

5 Connections and operating elements

Rear panel



1	XLR chassis plug LINK This outlet can be used to feed the signal to further active speakers.
2	XLR / phone combo socket LINE IN Line level input for balanced or unbalanced signals.
3	Ground/Lift button If a ground loop is causing hum you can use this switch to cut the connection between the earth pin of the device and the signal ground in the device.
4	IEC chassis connector for operating voltage supply.
5	Fuse holder.
6	Slide switch LINE VOLTAGE This switch is used to adapt the device to the local supply voltage. 115: AC 105...120 V ~ 230: AC 210...240 V ~ (factory default setting)

7	Mains switch POWER Turns the unit on or off.
8	MONITOR/FOH button Use this switch to select various EQ characteristics, suitable for different applications. MONITOR: For use as stage monitor with feedback suppression FOH: For use as PA speaker (front of house)
9	LED ON This LED lights up green when the device is switched on and voltage supply is present.

10 LED **SIGN/LIMIT**

This LED lights up green on incoming input signal.

This LED lights up red when the internal output signal is being limited (excessive input signal!).

11 Rotary control **LEVEL**

Control to adjust the LINE input level. Turn the knob clockwise or counter-clockwise to increase or decrease the input volume.

In zero-position, the signal is completely attenuated. In maximum position, the signal is processed without any attenuation.

6 Technical specifications

	Pro Mon A10, Item no. 309203	Pro Mon A12, Item no. 309205	Pro Mon A15, Item no. 309207
System	2-way active monitor		
Speakers	1 × 10" woofer	1 × 12" woofer	1 × 15" woofer
	1 × 1" tweeter	1 × 1.35" tweeter	1 × 1.35" tweeter
Input	XLR / 1/4" combo sockets		
Output	XLR chassis plug		
Input impedance	30 kΩ (balanced), 15 kΩ (unbalanced)		
Frequency response	60 Hz... 20 kHz	50 Hz... 20 kHz	45 Hz ... 20 kHz
Output power	RMS: 250 W	RMS: 350 W	RMS: 450 W
	Peak: 500 W	Peak: 700 W	Peak: 900 W
Maximum SPL (SPL)	123 dB	124 dB	126 dB

	Pro Mon A10, Item no. 309203	Pro Mon A12, Item no. 309205	Pro Mon A15, Item no. 309207
Dispersion angle (V × H)	80° × 80°	80° × 80°	60° × 60°
Operating supply voltage	AC 230 V ~, 50 Hz / AC 110 V ~, 60 Hz	AC 230 V ~, 50 Hz / AC 110 V ~, 60 Hz	AC 230 V ~, 50 Hz / AC 110 V ~, 60 Hz
Dimensions (W × H × D)	480 mm × 300 mm × 420 mm	510 mm × 340 mm × 500 mm	610 mm × 365 mm × 545 mm
Weight	11 kg	15 kg	19.5 kg

Mon A10, A12, A15

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)



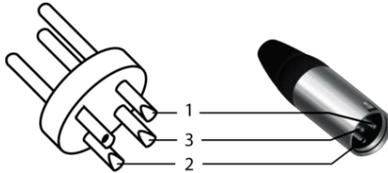
1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

1/4" TRS phone plug (stereo, unbalanced)



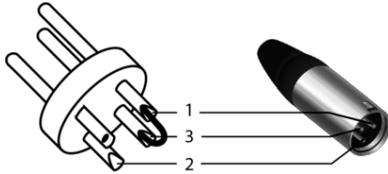
1	Signal (left)
2	Signal (right)
3	Ground

XLR plug (balanced)



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

XLR plug (unbalanced)



1	Ground, shielding
2	Signal
3	Bridged to pin 1

8 Troubleshooting

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work	1. Check the power supply connection and the position of the mains switch POWER .
No sound	1. Check the position of the rotary control LEVEL .
	2. Check whether the LED SIGN/LIMIT lights up green. If it doesn't, the input signal is too weak
	3. Check for correct signal cable connection.
	4. Check the signal cable and/or the signal source.
	5. Try using another signal cable.

Symptom	Remedy
Audible distortion	Excessive input signal. Reduce the signal level. Never operate the loudspeaker with such a high signal level that the SIGN/LIMIT LED lights solid red!
Different channel levels (when using two monitors)	1. Make sure that for both channels the same type of cable (balanced, unbalanced) is used. 2. Make sure that your speaker system is fully connected and both speakers have the same input impedance.
Hum and noise	1. Use the 'Ground/Lift' switch, if applicable on all amplifiers connected to the system. 2. Make sure that only balanced cables are used. 3. Make sure that all audio devices are connected on the same power grid circuit and therefore share the same ground reference.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at www.thomann.de.

9 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

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

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



