



Harley Benton

AirBorne Go
guitar combo

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

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1 General information

This user manual contains important information on the 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 another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.


Example:

1. ▶ Switch on the device.
2. ▶ Press *[Auto]*.
 - ⇒ Automatic operation is started.
3. ▶ Switch off the device.

1.3 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 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.
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.
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.

2 Safety instructions

Intended use

This device is intended to be used for amplification and playback of signals from musical instruments with electromagnetic pickups. 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.



WARNING!

Incorrect handling of lithium batteries can result in injury

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. Follow the advice on the correct handling of lithium batteries in the present section.



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 block areas of ventilation. Do not install 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. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

External power supply



The device is powered by an external power supply. Before connecting the external power supply, 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 the user. Unplug the external power supply before electrical storms occur and when the device is unused for long periods of time to reduce the risk of electric shock or fire.



NOTICE!

Possible damage to lithium-ion batteries through incorrect storage



By deep discharge, lithium-ion batteries can be permanently damaged or lose some of their capacity. Before long breaks, charge the batteries to around 50 % of their capacity and then switch off the device. Store the device at room temperature or cooler in an environment as dry as possible. If the batteries are stored for a longer period, recharge them to 50 % every three months. Fully charge the batteries only shortly before use at room temperature.

3 Features

Special features of the device:

- HD modeling desktop guitar amplifier
- Built-in AirBorne 2.4 GHz instrument (wireless plug-n-play transceiver system)
- Bluetooth® 5.0 dual mode connectivity
- Drum computer and metronome with 9 patterns
- Great features for wireless practice and play along with streamed music
- Ideal for electric guitar and acoustic guitar with pickup
- 3 W (RMS) output power
- 1 × 3" full-range speaker
- 12 modern and classic digital effects
- 3 modern and classic guitar amp models
- Wooden housing
- AirBorne Go Mobile APP ("Mighty Amp") for Android and IOS devices
- Micro USB cable (included)

4 Installation and starting up

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

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.



NOTICE!

Magnetic fields

The device generates strong magnetic fields that can interfere with the function of poorly shielded devices. The strongest magnetic fields are directly above and below the power amplifier. Therefore, never place sensitive devices such as pre-amplifiers, radio transmission systems, or tape decks directly above or below the power amplifier. When installing the power amplifier into a rack, you should place it in the lowest position, and further equipment such as pre-amplifiers in the highest position.



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!

Distance to WiFi router

Place the device at a distance of at least three meters from a WiFi router to avoid impairing data transmission.

4.1 Dealing with lithium batteries



WARNING!

Incorrect handling of lithium batteries can result in injury

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries.

Follow the advice on the correct handling of lithium batteries in the present section.

When handled correctly and appropriately lithium batteries pose no risk.

Store lithium batteries in a cool, dry place, ideally in the original packaging.

Store lithium batteries away from heat sources (e.g. radiators or sunlight). Lithium batteries are hermetically sealed. Never attempt to open a lithium battery.

If the battery housing is damaged small amounts of the electrolyte may leak out. If this should happen, seal the lithium battery in airtight packaging and wipe up the traces of electrolyte using absorbent paper towels. You must wear protective rubber gloves when doing so. Clean your hands and the affected surface thoroughly with cold water.

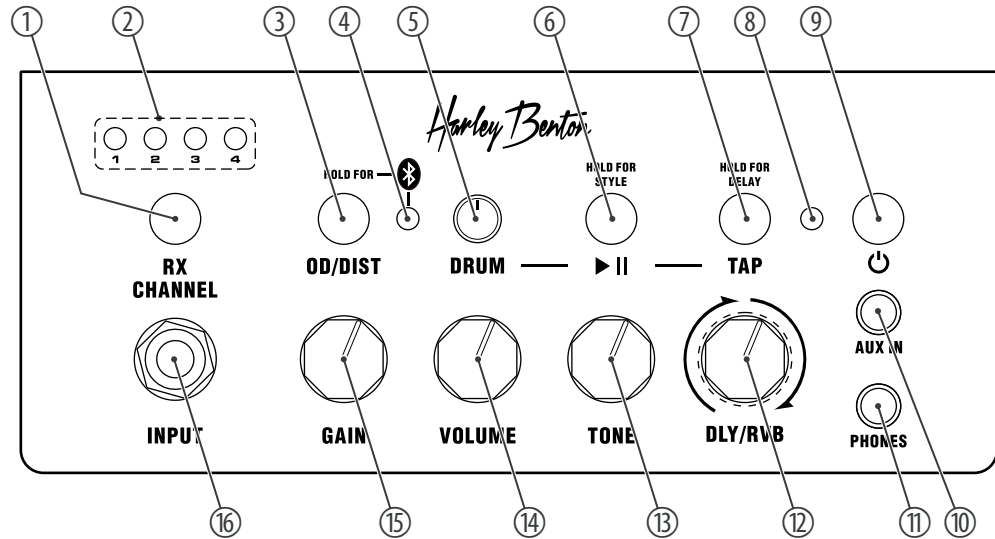
Never attempt to recharge non-rechargeable lithium batteries. When charging lithium batteries you must use a suitable charging device intended for the purpose.

Before disposing of the device remove the lithium batteries. Protect used lithium batteries against potential short circuits, e.g. by covering the poles with adhesive tape.

Only use powder extinguishers or other suitable extinguishing agents to extinguish a burning lithium battery.

5 Connections and controls


Top side



AirBorne Go

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1	<i>[RX CHANNEL]</i> Illuminated push button to switch the wireless receiver on and off and to select the RX channel
2	<i>[1]...[4]</i> LEDs for the selected channel
3	<i>[OD/DIST]</i> Illuminated push button for selecting one of the three channels <i>[CLEAN]</i> (green), <i>[OD]</i> (orange) or <i>[DIST]</i> (red). Press and hold the pushbutton to activate or deactivate the Bluetooth® function.
4	Indicator LED for the Bluetooth® function
5	<i>[DRUM]</i> Rotary control to adjust the drum volume as well as to select a drum style or to set the delay time.
6	▶ Illuminated push button to start and pause a drum style
7	<i>[TAP]</i> Illuminated push button to adjust the drum tempo

8	Indicator LED. Lights up when the device is turned on.
9	 Main switch. Turns the device on and off.
10	<i>[AUX IN]</i> AUX input, designed as a 3.5 mm jack socket, for connecting an MP3 player
11	<i>[PHONES]</i> Headphones output, designed as 3.5 mm jack socket. The device mutes the speaker as soon as headphones are connected.
12	<i>[DLY/RVB]</i> Knobs for controlling delay and reverb. Turn the knob in the control area to the left of the centre clockwise to increase the delay mix level. Turn the knob in the control area to the right of the centre clockwise to increase the reverb mix level. If you turn the rotary control into the reverb section, the delay effect is disabled.
13	<i>[TONE]</i> EQ rotary control. Turning clockwise increases the treble.

14	<i>[VOLUME]</i> Rotary volume control
15	<i>[GAIN]</i> Rotary control to adjust the input sensitivity
16	<i>[INPUT]</i> Connection for an instrument via cable. If you use this connection instead of wireless transmission, the wireless signal is ignored and only the cable signal is processed.

Rear panel



17 Socket for connecting the supplied plug-in power supply

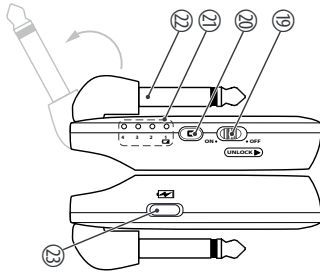
18 USB port for charging the AirBorne wireless transmitter



NOTICE!

The device is not suitable for charging further devices via the USB port.

**AirBorne 2.4 GHz Instrument
(transmitter)**



19	On / off switch
20	Button for channel selecting
21	Indicator LEDs to display the selected channel and for charge status display
22	1/4" jack for connection to the instrument. Depending on the desired use, it can be folded into the appropriate position (max. angle of rotation: 220°)
23	Micro USB port for charging the transmitter

6 Operating

6.1 Drum adjusting

Adjusting the volume

Press ►|| to play the set drum style. While playing, turn the *[DRUM]* control to adjust the volume.

Setting the tempo


Press ►|| to play the set drum style. While playing, press *[TAP]* to adjust the tempo. The push button flashes at a changing frequency to indicate the current tempo.

Drum style setting

1. ► Press and hold the white illuminated ►|| push button.
 - ⇒ The colour of the push button changes and indicates with the colour which drum style is currently set.
2. ► Turn the *[DRUM]* control to select a drum style.
3. ► The ►|| -push button turns white again and the *[DRUM]* control adjusts the volume again.

Red	Metronome
Green	Pop
Blue	Metal
Yellow	Blues
Dark yellow	Country
Pink	Rock
Light red	Ballad
Light green	radio
Bright blue	RNB
Light yellow	Latin

Delay adjusting

1.  Press and hold the red illuminated [TAP] pushbutton.
⇒ The pushbutton turns yellow.

2. ▶ Now turn the *[DRUM]* control to set a delay time.
3. ▶ The push button turns red again and the *[DRUM]* control adjusts the volume again.

6.2 AirBorne 2.4 GHz Instrument

The receiver of the AirBorne 2.4 GHz instrument is integrated in the device. Reception is activated automatically when the device is switched on. Long press *[RX CHANNEL]* to activate or deactivate the built-in receiver. The transmitter is included.

To avoid interference, the device must not be operated in the vicinity of other wireless devices, e.g. WiFi router or the like.

Charge the transmitter battery fully before first use. When the device is switched off, the LEDs indicate the charging progress by lighting up in succession as the charge increases. When the device is switched on, all LEDs light up to indicate the charging process. In order to maintain the charging capacity, the battery must be charged every 3 months even when not in use. If a weak battery is displayed, there is still approximately 10 minutes of operating time left. Then the built-in battery must be charged at the latest.

Connecting and coupling the transmitter

1. ▶ Plug the transmitter into the 1/4" jack socket of the instrument whose signal is to be transmitted and bring the on / off switch on the transmitter to the *[ON]* position.
 - ⇒ The transmitter flashes five times. The LED indicator lights up during transmission.
When the data transmission is stable, the LED indicator on the receiver lights up constantly. If the signal is too weak, the LED flashes. Then reduce the distance between transmitter and receiver.
2. ▶ Select the same transmission channel on the transmitter and receiver by pressing the channel selection button. The default setting when switching on is "Channel 1". We recommend using this channel when there is no radio interference. Otherwise, try operating on a different channel.
3. ▶ To switch the transmitter off, move the on / off switch to the *[OFF]* position.

6.3 AirBorne Go Mobile APP ("Mighty Amp")

The free AirBorne Go Mobile APP "Mighty Amp" is available for Android and IOS devices. It can be downloaded from the Google Play Store, for instance.

With the app, advanced sound settings can be made for the device. Some functions, such as selecting the existing models, are only available via the app.

1. ▶ Download the app and install it on your smartphone or tablet.
2. ▶ Open the app and select '*AirBorne GO*' from the home screen to connect your smartphone or tablet to your device.
3. ▶ Select '*AirBorne GO*' for '*Current Amp*'.
4. ▶ On the current screen, you can select the channel to be changed and below it the desired mode.
5. ▶ The respective values can be adjusted by enlarging or reducing the bars. The delay time can be set using the '*Tap*' button.
6. ▶ The changes can be saved at any time with '*SAVE*'.

7 Technical specifications

Speaker	1 × 3" full-range speaker	
Input connections	Power supply	Power adapter
	AUX in	1 × 3.5 mm phone socket
	USB port	Type A (5 V, 500 mA)
Output connections	Headphones	1 × 3.5 mm phone socket
Input impedance	1 MΩ	
Output power	3 W (RMS)	
Frequency range	40 Hz to 16 kHz	
Signal-to-noise ratio	≥88 dB	
Bluetooth®	Frequency of operation	2.400 GHz ... 2.4835 GHz
	Max. transmission power	10 mW
	Standard	Version 5.0

Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	9 V $\overline{\text{---}}$ / 1.2 A, centre negative	
Dimensions (W x H x D)	220 mm x 114 mm x 155 mm	
Weight	1.34 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

Transmitter

Frequency of operation	2.400 GHz ... 2.4835 GHz
Max. transmission power	10 mW
Resolution	24 bit
Sampling rate	44,1 kHz
Number of channels	4

Operating range	max. 30 m	
Frequency range	20 Hz...20 kHz	
Latency	<5 ms	
Power supply	Micro USB 5 V / 500 mA	
Battery / rechargeable battery	Battery type	Lithium-ion
	Capacity	500 mAh
	Operating time	5 h
Dimensions (W × H × D)	73 mm × 40 mm × 15 mm	
Weight	0.05 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20 %...80 % (non-condensing)

Further information

Reverb effect	Yes
Effects processor	Yes
External effects loop	No
Microphone input	No
Line input	Yes
Foot switch connection	No
Incl. foot switch	No
Recording output	No
MIDI port	No
External speaker connector	No

8 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

Three-pole 1/8" mini phone jack (stereo, unbalanced)



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

9 Protecting the environment

Disposal of the packaging material



For the 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 batteries



Batteries do contain some hazardous chemicals so they should not be thrown away with the normal household waste. They should be returned to the manufacturer for disposal or recycled elsewhere in accordance with your local regulations.

Dispose lithium batteries only in discharged condition. Remove lithium batteries from the device before disposal. Protect used lithium batteries against potential short circuits, e.g. by covering the poles with adhesive tape. Dispose the built-in lithium batteries together with the device. Please check for an appropriate reception facility.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. 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.



