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DNAfx bAss Mobile

Multi Effects Unit

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11.12.2023, ID: 554555 (V2)

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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](http://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
<b>DANGER!</b>	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.
<b>WARNING!</b>	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.
<b>NOTICE!</b>	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 – dangers due to batteries.
	Warning – danger zone.

## 2 Safety instructions

### Intended use

This device is intended to be used for sound processing 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!**

#### **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.



### **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. Handle lithium batteries in a correct and professional manner. Store lithium batteries in a cool and dry place in their original packaging. Keep lithium batteries away from sources of heat. Never open lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Remove the lithium batteries before disposing of the device. Cover the poles of used lithium batteries with adhesive tape to prevent short circuits. Electrolyte can escape from damaged lithium batteries. Put the damaged lithium battery in air-tight packaging. Collect the electrolyte with absorbent paper. Wear rubber gloves while doing so.



### **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 within the ambient conditions specified in the “Technical specifications” chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt 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!**

#### **Possible damage to lithium-ion batteries through incorrect storage!**

Deep discharge can permanently damage lithium-ion batteries or cause them to lose some of their capacity. Charge the lithium-ion batteries before longer breaks in use and before storage. Ensure that the device is switched off for storage. Store the device at room temperature or cooler in an environment as dry as possible. Recharge the lithium-ion batteries about every three months if they are stored for a longer period of time to avoid permanent damage due to too deep self-discharge. Fully charge the lithium-ion batteries only shortly before use at room temperature.



## 3 Features

Special features of the device:

- Headphone amp & drum machine for electric bass
- 7 well-known bass amp and speaker models, each with its own pre-set memory slot: Clean Finger, Clean Pick, SlapBass Overdrive, Clean Solo, Jazz Solo, Djent Pick
- 7 different digital effects: Flanger, Phaser, Echo, Room Reverb, Hall Reverb, AnaDly+PlateRev, Chorus+PlateRev
- 5 different tone/EQ settings
- Drum machine with 28 different rhythm styles
- Bluetooth 5.0
- Rechargeable 720 mAh lithium-ion battery (charging time: 2.5 hours, running time: 4 hours)
- USB-C port for audio recordings, charging and firmware updates
- Swivelling jack input
- Headphones output
- Rechargeable via USB (5 V, 1 A)
- Dimensions: 48×19.5×63 mm
- Weight: 150 g
- Accessories: Quick start guide & USB cable

## 4 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.

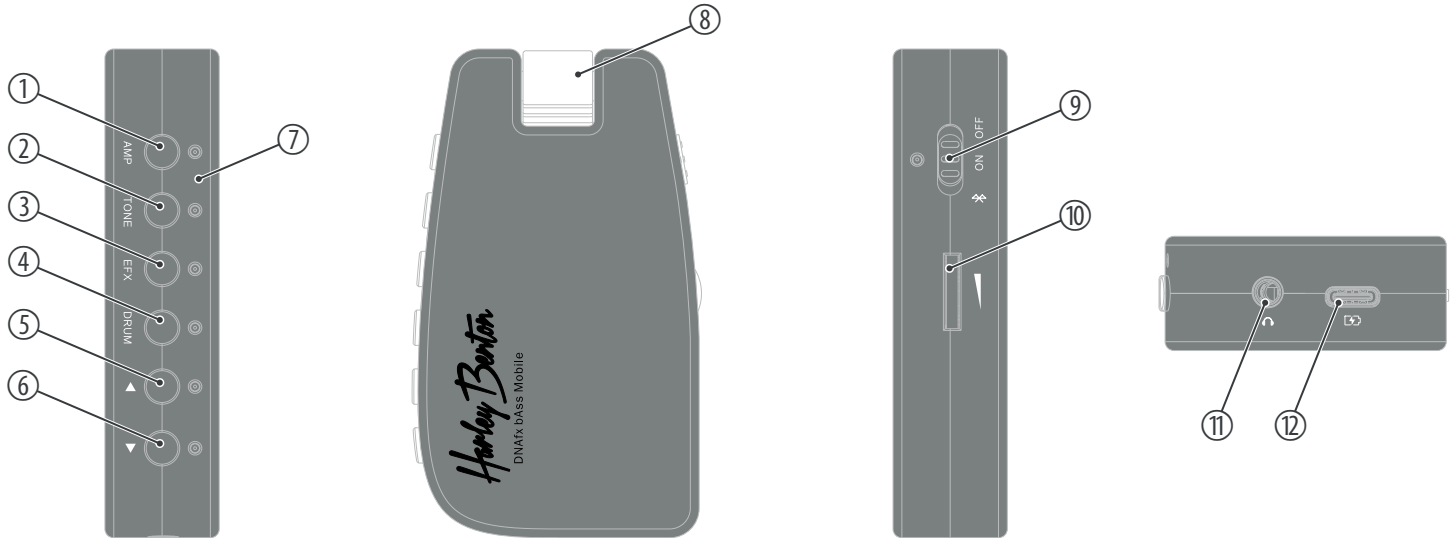
### Charging the device



*If the status LED of the main switch flashes blue when the device is switched on, the maximum remaining battery life is 30 minutes.*

1. ➤ Turn the device off using the main switch.
2. ➤ Plug the USB-C cable into the device and connect the USB-C cable to a USB charger connection.
  - ⇒ The device starts to charge. During charging, the status LED of the main switch lights up red. When the status LED lights up green, charging is complete and the device is ready for use again.

## 5 Connections and controls



1	[AMP]   Button to call up the amp modelling models
2	[TONE]   Button to call up the timbre
3	[EFX]   Button to call up digital effects
4	[DRUM]   Button to call up the drum machine
5	◀   Button to toggle between the settings and to decrease a value
6	▶   Button to toggle between the settings and to increase a value
7	LEDs to display the respective operating mode and effect strength
8	6.35 mm (1/4") jack plug for connection to the instrument
9	⌘ / [ON] / [OFF]   Main switch Set the switch to [ON] to switch on the device. The status LED lights up. Set the switch to ⌘ to enable the Bluetooth® function for audio playback. Set the switch to [OFF] to switch off the device.
10	Control to adjust the instrument signal volume.
11	🎧   Headphone output, designed as 3.5 mm jack socket
12	🔌   Port for the included USB-C cable for audio recordings and for charging the unit

## 6 Operating

1. ▶ Turn the volume control to the left to set the volume to minimum.
2. ▶ Switch on the unit and adjust the volume as required.

### 6.1 Selecting the amp modelling model

1. ▶ Press *[AMP]* to switch on the amp modelling models.
2. ▶ Press ◀ or ▶ to toggle between the seven different amp modelling models.
  - ⇒ The *[AMP]* LED lights up in the corresponding colour (see ↗ *Chapter 7 'Amp, effect and drum list' on page 20*).

## 6.2 Selecting timbre

1. ▶ Press *[TONE]* to switch on the timbre of the selected amp modelling model.
2. ▶ Press ◀ or ▶ to toggle between the five different timbres.
  - ⇒ The *[TONE]* LED lights up in the corresponding colour (see ↗ *Chapter 7 'Amp, effect and drum list' on page 20*).











## 6.3 Selecting digital effects

1. ▶ Press *[EFX]* to enable the effect of the selected amp modelling model.
2. ▶ Press ◀ or ▶ to toggle between the seven different effects.
  - ⇒ The *[EFX]* LED lights up in the corresponding colour (see ↗ *Chapter 7 'Amp, effect and drum list' on page 20*).



*Press again [EFX] to disable the effect of the selected amp modelling model.*

3. ▶ Press and hold *[EFX]* to adjust the effect strength.
  - ⇒ The *[EFX]* LED flashes.
4. ▶ Press ◀ or ▶ to set the effect strength of the selected effect from 1...10 as desired.
5. ▶ The LED ◀ or ▶ lights up in the corresponding colour:

Button	◀					▶				
Colour										
Value	1	2	3	4	5	6	7	8	9	10

## 6.4 Saving amp settings

- ▶ Press and hold down *[AMP]*.
  - ⇒ The selected settings (amp modelling, timbre, digital effect) are saved as the future default settings for the selected amp modelling model. They are always available when the amp modelling model is selected.

## 6.5 Setting the drum machine

1. ▶ Press *[DRUM]* to switch on the drum machine.
  - ⇒ The *[DRUM]* LED lights up when the drum machine is switched on.



- 2. ▶ Press ◀ or ▶ to toggle between the 28 different rhythms.
  - ⇒ Led ◀ or ▶ lights up in the corresponding colour (see ↗ Chapter 7 'Amp, effect and drum list' on page 20).



*Press and hold down [DRUM] to switch off the drum machine again.*

- 3. ▶ To adjust the volume, press [DRUM] while the drum machine was switched on.
  - ⇒ The [DRUM] LED lights up green.
- 4. ▶ Press ◀ or ▶ to adjust the volume of the drum machine from 1...10 as desired.
- 5. ▶ Led ◀ or ▶ lights up in the corresponding colour.

Butto n	◀					▶				
Colou r										
Value	1	2	3	4	5	6	7	8	9	10


- 6. ▶ Press [DRUM] again to adjust the speed.
  - ⇒ The [DRUM] LED flashes blue.

- 7.** Press ◀ or ▶ to adjust the speed of the drum machine between 40 and 260 BPM in increments of one BMP, or press and hold down ◀ or ▶ to adjust the speed in larger increments.
  - ⇒ The *[DRUM]* LED flashes at the selected speed.

## 6.6 USB audio

The unit can be used as USB-C audio interface with support for DAWs in Windows® and MAC. Windows® users have to install ASIO drivers to achieve low-latency recording and monitoring.

## 6.7 Bluetooth® audio






1. ▶ Set the main switch to  to enable the Bluetooth® function for audio playback.
2. ▶ Open the Bluetooth® list of your device to be paired and select 'DNAfx bAss Mobile'.
3. ▶ Accept the connection.
4. ▶ After a successful connection, the unit can output the playback signals of your paired device.



*You can only adjust the playback signal on the paired device.*

## 7 Amp, effect and drum list

### AMP

Number	Button and LED colour	Name	Template/description
1	[AMP] 	Clean Finger	Markbass® TA501
2	[AMP] 	Clean Pick	Aguilar® DB751
3	[AMP] 	Slap Bass	Ampeg® SVT
4	[AMP] 	Overdrive	Digitech® Metal Master/Markbass® Little Marcus 500
5	[AMP] 	Clean Solo	Ampeg® SVT
6	[AMP] 	Jazz Solo	Markbass® TA501
7	[AMP] 	Djent Pick	Peavey® Invective 120










*All trademarks and product names are the property of their respective owners and are used as reference for the effect types in this user manual.*

**TONE**

<b>Number</b>	<b>Button and LED colour</b>	<b>Name</b>
1	[TONE] ●	Darker
2	[TONE] ●	Dark
3	[TONE] ○	Flat
4	[TONE] ●	Bright
5	[TONE] ●	Brighter

### EFX















Number	Button and LED colour	Name
1	[EFX] 	Flanger
2	[EFX] 	Phaser
3	[EFX] 	Echo
4	[EFX] 	Room Reverb
5	[EFX] 	Hall Reverb
6	[EFX] 	AnaDly+PlateRev
7	[EFX] 	Chorus+PlateRev

**DRUM**

Number	Button and LED colour	Rhythm	Time signature
1	◀ ● (Red)	Pop 1	4/4
2	◀ ● (Green)	Pop 2	4/4
3	◀ ● (Purple)	Pop 3	4/4
4	◀ ● (Yellow)	Pop 4	6/8
5	◀ ● (Pink)	Pop 5	3/4
6	◀ ● (Light Blue)	Ballad 1	4/4
7	◀ ○ (White)	Ballad 2	4/4
8	◀ ● (Light Pink)	Ballad 3	4/4
9	◀ ○ (White)	Ballad 4	6/8
10	◀ ● (Light Blue)	Blues 1	4/4
11	◀ ● (Light Orange)	Blues 2	4/4
12	◀ ● (Light Pink)	Blues 3	6/8
13	◀ ● (Green)	Blues 4	6/8
14	◀ ○ (White)	Funk 1	4/4

## Amp, effect and drum list

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Number	Button and LED colour	Rhythm	Time signature
15	▶ 	Funk 2	4/4
16	▶ 	Funk 3	4/4
17	▶ 	Punk 1	4/4
18	▶ 	Punk 2	4/4
19	▶ 	Punk 3	6/8
20	▶ 	Rock 1	4/4
21	▶ 	Rock 2	4/4
22	▶ 	Rock 3	6/8
23	▶ 	Metal 1	4/4
24	▶ 	Metal 2	4/4
25	▶ 	Metal 3	6/8
26	▶ 	Jazz 1	4/4
27	▶ 	Jazz 2	4/4
28	▶ 	Jazz 3	3/4



## 8 Technical specifications

Input connections	Power supply/USB audio	USB-C socket
	Instrument	6.35 mm (1/4") jack socket
Output connections	Headphones	3.5 mm jack socket
Power supply	5 V $\overline{\text{DC}}$ / 1 A via USB port	
Operating voltage	3.7 V $\overline{\text{DC}}$ / 130 mA	
Battery	Battery type	Lithium-ion
	Voltage	3.7 V
	Capacity	720 mAh
	Charging time in the device	2.5 h
	Operating time	approx. 4 h
Bluetooth®	Frequency range	2402 MHz ... 2480 MHz
	Max. transmission power	+2 dBm
	Standard	Version 5.0
Dimensions (W × H × D)	48 mm × 19.5 mm × 63 mm	
Weight	150 g	

## Technical specifications

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Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

### Further information

Effect type	Headphone amplifier
Number of control channels	1
Volume control per channel	yes
Number of inputs	1
Rack format	no

## 9 Plug and pin assignments

### 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

# 10 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 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.

Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility.

Dispose of the batteries and rechargeable batteries at relevant collection points or through your local waste facility.

### 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. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

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.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on [www.thomann.de](http://www.thomann.de).

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



