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DNAfx bAss Mobile

Multi Effects Unit

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# Table of contents

<b>1</b>	<b>General information.....</b>	<b>5</b>
1.1	Further information.....	6
1.2	Notational conventions.....	6
1.3	Symbols and signal words.....	8
<b>2</b>	<b>Safety instructions.....</b>	<b>9</b>
<b>3</b>	<b>Features.....</b>	<b>11</b>
<b>4</b>	<b>Starting up .....</b>	<b>12</b>
4.1	Dealing with lithium batteries.....	12
4.2	Charging the unit.....	14
<b>5</b>	<b>Connections and operating elements.....</b>	<b>15</b>
<b>6</b>	<b>Operating.....</b>	<b>17</b>
6.1	Selecting the amp modelling model.....	17
6.2	Selecting timbre.....	18
6.3	Selecting digital effects.....	19
6.4	Saving amp settings.....	20
6.5	Setting the drum machine.....	20
6.6	USB audio.....	22
6.7	Bluetooth® audio.....	23
<b>7</b>	<b>Amp, effect and drum list.....</b>	<b>24</b>

**8    Technical specifications..... 29**

**9    Plug and pin assignments..... 31**

**10   Protecting the environment..... 33**

# 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](http://www.thomann.de).

### 1.1 Further information

On our website ([www.thomann.de](http://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.


**Cross-references**

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See ➤ *'Cross-references' on page 7.*

### 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
<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 – 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!**

##### **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.



### **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!**

#### **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:

- 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.

### 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.

## 4.2 Charging the unit



*If the status LED of the main switch flashes blue when the unit is switched on, only a maximum of 30 minutes of battery life remains.*

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








## 5 Connections and operating elements



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	   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	 / <i>[ON]</i> / <i>[OFF]</i>   Main switch Set the switch to <i>[ON]</i> to switch on the unit. The status LED lights up. Set the switch to  to enable the Bluetooth® function for the audio playback. Set the switch to <i>[OFF]</i> to switch off the unit.
10	Control to adjust the instrument signal volume.
11	   Headphones output, designed as 3.5 mm jack socket
12	   Port for the included USB-C cable for audio recordings and 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 24*).

## 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 24*).











## 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 24*).



*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 24).



*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® Invektive 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**















Number	Button and LED colour	Name
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	◀ 	Pop 1	4/4
2	◀ 	Pop 2	4/4
3	◀ 	Pop 3	4/4
4	◀ 	Pop 4	6/8
5	◀ 	Pop 5	3/4
6	◀ 	Ballad 1	4/4
7	◀ 	Ballad 2	4/4
8	◀ 	Ballad 3	4/4
9	◀ 	Ballad 4	6/8
10	◀ 	Blues 1	4/4
11	◀ 	Blues 2	4/4
12	◀ 	Blues 3	6/8
13	◀ 	Blues 4	6/8
14	◀ 	Funk 1	4/4

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  / 1 A via USB port	
Operating voltage	3.7 V  / 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 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 must not be thrown away or incinerated; they must be disposed of in accordance with local regulations for the disposal of hazardous waste. Use the existing collection points for this.

Only dispose of lithium batteries when they are discharged. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries against short circuits, for example by covering the poles with adhesive tape. Permanently built-in lithium batteries must be disposed of together with the device. Please inquire about an appropriate collection point.

### 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.



