

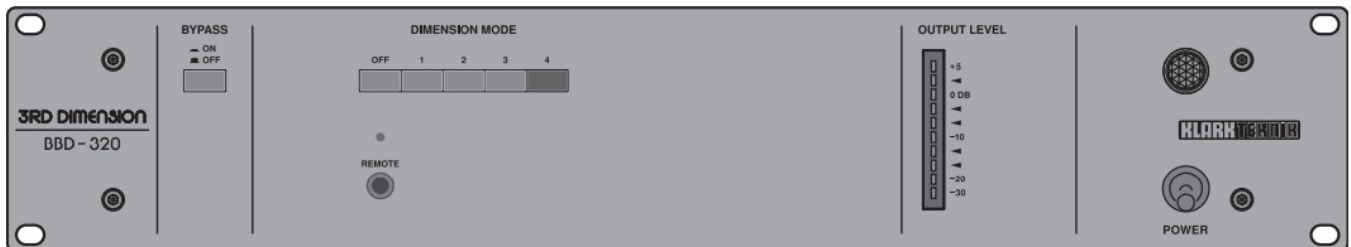


# KLARK TEKNIK BBD-320 Analog Multi-Dimensional Signal Processor User Guide

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## BBD-320 Analog Multi-Dimensional Signal Processor User Guide



### Quick Start Guide 3RD DIMENSION BBD-320

Analog Multi-Dimensional Signal Processor with BBD Technology

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## Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



#### **Caution**

To reduce the risk of electric shock, do not move the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



#### **Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

#### **Caution**




These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17.  Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

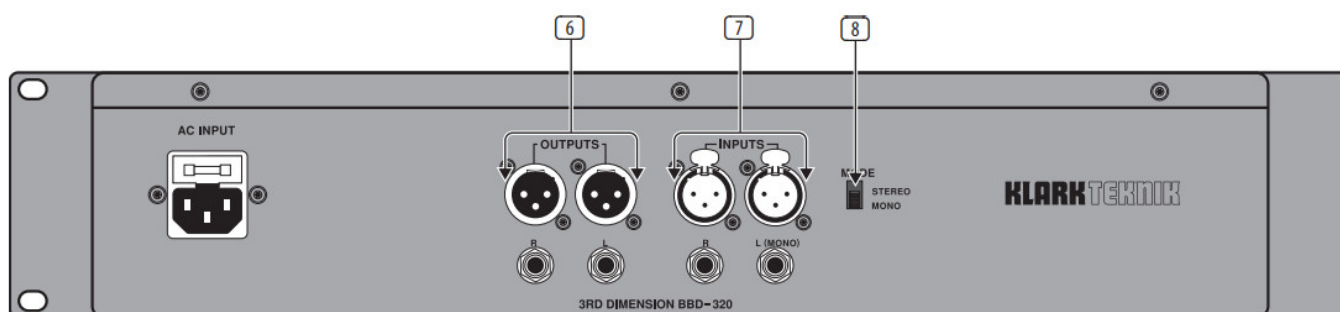
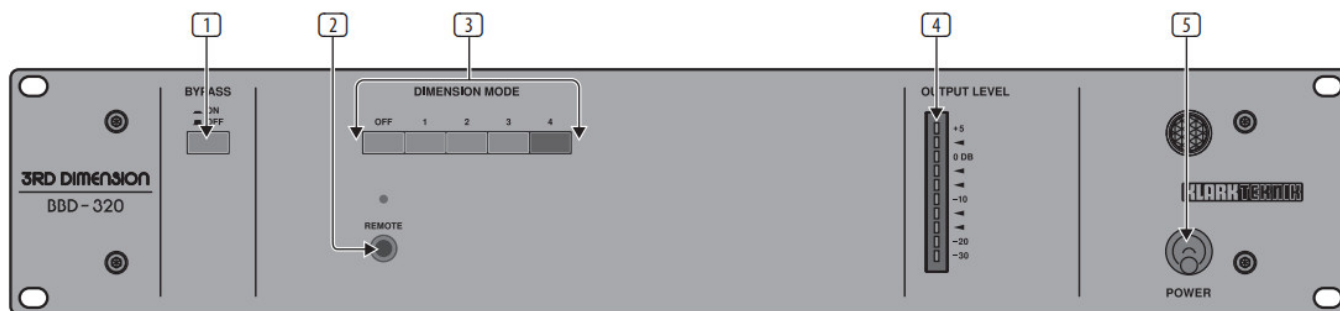
## LEGAL DISCLAIMER

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## LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at [community.musictribe.com/pages/support#warranty](https://community.musictribe.com/pages/support#warranty).

## 3RD DIMENSION BBD-320 Controls



## Controls

1. **BYPASS** – Press this button to connect the input signal directly to the outputs.
2. **REMOTE** – Connect a footswitch via ¼" TS cable to remotely toggle between the selected chorus mode and the OFF state. The red LED will light when the effect is engaged.
3. **DIMENSION MODE** – Select the intensity of the chorus effect, with 1 being subtle and 4 being the most intense. The effect is disengaged in the OFF setting.
4. **OUTPUT LEVEL** – Displays the overall output level.
5. **POWER** – Turn the unit on and off with this switch. The jewel LED will light when powered on.
6. **OUTPUTS** – Send the processed signal to other equipment via balanced XLR or ¼" TRS cables.
7. **INPUTS** – Connect incoming signals to the unit via balanced XLR or ¼" TRS cable.
8. **MODE** – Set to STEREO if using stereo inputs. Set to MONO to allow the left input to send the signal to both chorus channels.

## 3RD DIMENSION BBD-320 Getting started

### Getting started

1. Install the BBD-320 in a rack using 4 rack screws. It may be easiest to make power and audio connections prior to installation. If using a single input signal, set the MODE switch to MONO, otherwise use the STEREO setting.
2. After the power cable has been connected to a mains outlet or power strip, and audio cables have been connected, turn the power switch on.
3. Adjust the level of the incoming audio signal so that the OUTPUT LEVEL meter briefly reaches 0 during the loudest peaks.
4. Experiment with the 4 chorus settings. Multiple buttons can also be depressed simultaneously for different sounds.

## Specifications

<b>Audio Input</b>	
Type	2 x XLR, 2 x ¼" TRS balanced
Impedance	30 kΩ balanced, 15 kΩ unbalanced
Maximum input level	+21 dBu, balanced and unbalanced
CMRR at 1 kHz	Typically -50 dB
<b>Audio Output</b>	
Type	2 x XLR balanced, 2 x ¼" TRS balanced
Impedance	50 Ω balanced and unbalanced
Maximum output level	+21 dBu, balanced and unbalanced
<b>System Specifications</b>	
Frequency response, dimension mode off	20 Hz to 20 kHz, +0/-3 dB
Noise, dimension mode off	< -90 dBu, unweighted, 20 Hz to 20 kHz
Noise, dimension mode 1-3 enabled	< -79 dBu, unweighted, 20 Hz to 20 kHz
Distortion at unity gain, dimension mode off	Typically <0.1% @ 1 kHz
<b>Chorus</b>	
Dimension modes	Off, 1-4
Bypass	On/off
Remote	¼" TS input
Output level meter	10 segment, -30 to +5 dB
Stereo/mono mode	Selectable
<b>Power Supply</b>	
Mains voltage	100 – 240 V~, 50/60 Hz
Power consumption	10 W
Fuse	T 1A H 250 V
Mains connection	Standard IEC receptacle
<b>Physical</b>	
Dimensions (H x W x D)	88 x 483 x 158 mm (3.5 x 19 x 6.2")
Weight	2.5 kg (5.5 lbs)

## Other important information

## Important information

1. **Register online.** Please register your new Music Tribe equipment right after you purchase it by visiting [musictribe.com](http://musictribe.com). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. **Malfunction.** Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at [musictribe.com](http://musictribe.com). Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at [musictribe.com](http://musictribe.com). Alternatively, please submit an online warranty claim at [musictribe.com](http://musictribe.com) BEFORE returning the product.
3. **Power Connections.** Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

## **FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION**

**Klark Teknik**

**3RD DIMENSION BBD-320**

**Responsible Party Name: Music Tribe Commercial NV Inc.**

**Address: 122 E. 42nd St.1,**

**8th Floor NY, NY 10168,**

**United States**

**Email Address: [legal@musictribe.com](mailto:legal@musictribe.com)**

## **3RD DIMENSION BBD-320**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

### **Important information:**

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.



Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>


EU Representative: Music Tribe Brands DK A/S

Address: Gimmel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.  
Address: 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom



## Documents / Resources

	<p><a href="#">KLARK TEKNIK BBD-320 Analog Multi-Dimensional Signal Processor</a> [pdf] User Guide BBD-320 Analog Multi-Dimensional Signal Processor, BBD-320, Analog Multi-Dimensional Signal Processor, Multi-Dimensional Signal Processor, Dimensional Signal Processor, Signal Processor, Processor</p>
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Manuals+.