

User Manual



VIRTUBE

VT30FX

30-Watt Guitar Amplifier with 2 Independent Channels, VTC Tube Modeling, FX and Original BUGERA 10" Speaker

VT15FX/VT15CD

15-Watt Guitar Amplifier with 2 Channels, VTC Tube Modeling, FX (except VT15CD) and Original BUGERA 8" Speaker

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Thank you

Congratulations! With the VIRTUBE, you have the newest generation of guitar amps. It offers an extremely broad range of options and possibilities, the only limit being your own creativity. The VIRTUBE is an allrounder with so many features that you hardly need any other equipment.

EN 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 remove 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.



LEGAL DISCLAIMER

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Trident Chambers, Wickhams Cay, P.O. Box 146, Road Town, Tortola, British Virgin Islands

LIMITED WARRANTY

§ 1 Warranty

1 This limited warranty is valid only if you purchased the product from a MUSIC Group Authorized Reseller in the country of purchase. A list of authorized resellers can be found on BEHRINGER's website behringer.com under "Where to Buy", or you can contact the MUSIC Group office closest to you.

2 MUSIC Group* warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of one (1) year from the original date of purchase (see the Limited Warranty terms in § 4 below), unless a longer minimum warranty period is mandated by applicable local laws. If the product shows any defects within the specified warranty period and that defect is not excluded under § 4, MUSIC Group shall, at its discretion, either replace or repair the product using suitable new or reconditioned product or parts. In case MUSIC Group decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., one (1) year (or otherwise applicable minimum warranty period) from the date of purchase of the original product.

3 Upon validation of the warranty claim, the repaired or replacement product will be returned to the user freight prepaid by MUSIC Group.

4 Warranty claims other than those indicated above are expressly excluded.

PLEASE RETAIN YOUR SALES RECEIPT. IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH PROOF OF PURCHASE.

§ 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase at behringer.com under "Support" and kindly read the terms and conditions of our limited warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Return materials authorization

1 To obtain warranty service, please contact the retailer from whom the equipment was purchased. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under

“Support” at behringer.com. If your country is not listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product. All inquiries must be accompanied by a description of the problem and the serial number of the product. After verifying the product’s warranty eligibility with the original sales receipt, MUSIC Group will then issue a Return Materials Authorization (“RMA”) number.

② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by MUSIC Group.

③ Shipments without freight prepaid will not be accepted.

§ 4 Warranty Exclusions

① This limited warranty does not cover consumable parts including, but not limited to, fuses and batteries. Where applicable, MUSIC Group warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase.

② This limited warranty does not cover the product if it has been electronically or mechanically modified in any way. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. This limited warranty does not cover any such modification/adaptation, regardless of whether it was carried out properly or not. Under the terms of this limited warranty, MUSIC Group shall not be held responsible for any cost resulting from such a modification/adaptation.

③ This limited warranty covers only the product hardware. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided “AS IS” unless expressly provided for in any enclosed software limited warranty.

④ This limited warranty is invalid if the factory-applied serial number has been altered or removed from the product.

⑤ Free inspections and maintenance/repair work are expressly excluded from this limited warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, guitar strings, illuminants and similar parts.

⑥ Damage/defects caused by the following conditions are not covered by this limited warranty:

- improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;

- connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- damage/defects caused by acts of God/Nature (accident, fire, flood, etc) or any other condition that is beyond the control of MUSIC Group.

⑦ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the limited warranty.

⑧ If an inspection of the product by MUSIC Group shows that the defect in question is not covered by the limited warranty, the inspection costs are payable by the customer.

⑨ Products which do not meet the terms of this limited warranty will be repaired exclusively at the buyer’s expense. MUSIC Group or its authorized service center will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, MUSIC Group will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

⑩ MUSIC Group Authorized Resellers do not sell new products directly in online auctions. Purchases made through an online auction are on a “buyer beware” basis. Online auction confirmations or sales receipts are not accepted for warranty verification and MUSIC Group will not repair or replace any product purchased through an online auction.

§ 5 Warranty transferability

This limited warranty is extended exclusively to the original buyer (customer of authorized reseller) and is not transferable to anyone who may subsequently purchase this product. No other person (reseller, etc.) shall be entitled to give any warranty promise on behalf of MUSIC Group.

§ 6 Claim for damage

Subject only to the operation of mandatory applicable local laws, MUSIC Group shall have no liability to the buyer under this warranty for any consequential or indirect loss or damage of any kind. In no event shall the liability of MUSIC Group under this limited warranty exceed the invoiced value of the product.

§ 7 Limitation of liability

This limited warranty is the complete and exclusive warranty between you and MUSIC Group. It supersedes all other written or oral communications related to this product. MUSIC Group provides no other warranties for this product.

§ 8 Other warranty rights and national law

① This limited warranty does not exclude or limit the buyer’s statutory rights as a consumer in any way.

② The limited warranty regulations mentioned herein are applicable unless they constitute an infringement of applicable mandatory local laws.

③ This warranty does not detract from the seller’s obligations in regard to any lack of conformity of the product and any hidden defect.

§ 9 Amendment

Warranty service conditions are subject to change without notice. For the latest warranty terms and conditions and additional information regarding MUSIC Group’s limited warranty, please see complete details online at behringer.com.

* MUSIC Group Macao Commercial Offshore Limited of Rue de Pequim No. 202-A, Macau Finance Centre 9/J, Macau, including all MUSIC Group companies

1. Introduction

The demands placed on a guitar amp are nowadays very broad. A guitarist should offer a wide array of sounds. That's why it is very important to us to be able to offer you maximum sound diversity as well as a variety of connection possibilities with your VIRTUBE. Don't worry: you will quickly master the VIRTUBE and learn how to use all of its capabilities easily and intuitively. With its up-to-date circuitry, the VIRTUBE features the functionality and reliability of a truly modern guitar amp.

VTC Virtual Tube Circuitry

The specially developed VTC Virtual Tube Circuitry gives your sound the unique vintage flavor of classic tube amps.

1.1 Before you get started

Your product was carefully packed at the factory to ensure safe transport. Nevertheless, if the box is damaged inspect the unit immediately for signs of damage.

- ◇ If the unit is damaged please do NOT return it to us, but notify your dealer and the shipping company immediately; otherwise, claims for damage or replacement may not be granted.
- ◇ Otherwise, always use the original box to prevent damage during storage or transport.
- ◇ Make sure that children cannot play unsupervised with the unit or its packaging.
- ◇ Please ensure proper disposal of all packing materials. Recycle whenever possible.

Ensure adequate air supply and to avoid overheating do not place the unit near radiators etc.

- ◇ Please make sure that all devices are properly grounded / earthed. For your own safety, never remove or disable the ground/earth conductors from the devices or on the power cords. The unit must always be connected to the mains outlet with a protective grounding connection.

1.1.1 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

2. Control Elements

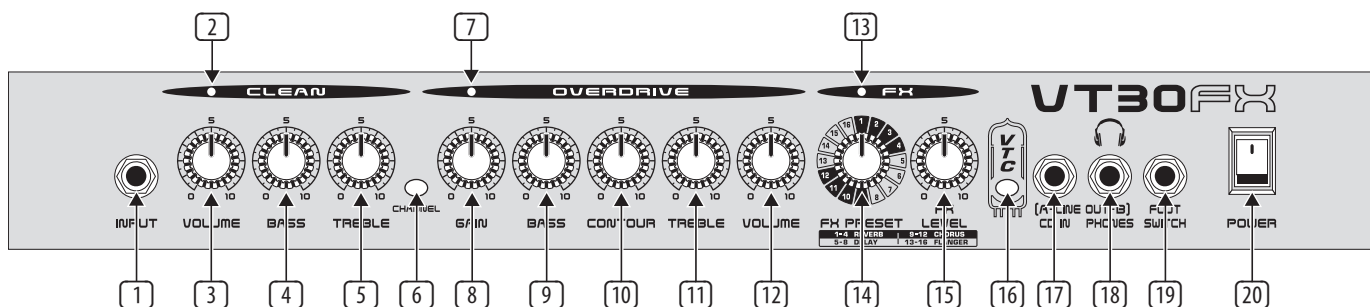


Fig. 2.1: VIRTUBE control elements (front panel)

2.1 Front panel

- 1 The **INPUT** socket is the ¼" connector for your guitar. Please use a standard ¼" TS connector.

2.1.1 CLEAN channel

- 2 The **CLEAN CHANNEL LED** lights up when the channel is active.
- 3 The **VOLUME** control determines the volume of the CLEAN channel.
- 4 The **BASS** control in the EQ section allows you to raise or lower the bass frequencies on the CLEAN channel (VT30FX only).
- 5 The **TREBLE** control adjusts the treble frequencies on the CLEAN channel (VT30FX only).

- 6 Press the **CHANNEL** button to switch between the CLEAN and OVERDRIVE channels. The channel LED lights up when the channel is activated. With all models you can also switch between channels using the footswitch provided.

2.1.2 OVERDRIVE channel

- 7 The **OVERDRIVE CHANNEL LED** lights up when the channel is active.
- 8 The **GAIN** control determines the amount of gain applied and hence the degree of distortion in the OVERDRIVE channel.
- 9 The **BASS** control in the EQ section allows you to raise or lower the bass frequencies.
- 10 Use the **CONTOUR** control (VT15FX / VT15CD: MID) for additional, highly characteristic adjustment of the midrange, so as to easily create traditional as well as ultra-modern guitar sounds.

- 11 The **TREBLE** control adjusts the treble frequencies.
- ◆ On the VT30FX, the controls 9, 10 and 11 are effective on the **OVERDRIVE** channel only, since this amplifier has a dedicated equalizer for the **CLEAN** channel (see also 4 and 5).
- 12 The **VOLUME** control adjusts the volume level of the **OVERDRIVE** channel.

2.1.3 FX section (VT30FX and VT15FX only)

- 13 The **FX LED** lights up when the effects processor is active.
- 14 Use the **FX PRESET** control to select one of 16 effects.

PRESET	FX
1 - 4	Reverb
5 - 8	Delay
9 - 12	Chorus
13 - 16	Flanger

Tab. 2.1: Effects

- 15 The **FX LEVEL** control adjusts the mix ratio between the original and the effect signal.

2.1.4 Connectors and POWER switch

- 16 The **VTC** push button activates and deactivates the VTC Virtual Tube Circuitry.
- 17 The **CD IN** connector allows you to connect the output signal of a CD player, tape deck, or CD/MD walkman. For example, you can play back music CDs or CDs accompanying a guitar tutor while practising. This connector can also be used as a **LINE OUT** output. In this case, the guitar signal is output with no speaker simulation applied and can be routed to an external amp or mixing console. This will not mute the built-in loudspeaker of the VIRTUBE.
- 18 The **LINE OUT/PHONES** jack is for headphones connection. Internal speaker simulation is applied to the headphones signal in order to produce an authentic signal. The built-in loudspeaker of the VIRTUBE is muted when this connector is used.
- ◆ The headphones output signal can also be routed to a mixing console or other sound reinforcement system. To do so, connect the headphones output with the line input on the mixing console. Use a standard cable with 1/4" TS connectors. If hum problems occur, you could insert a DI box, e.g. BEHRINGER ULTRA-DI DI100 or DI120.
- ◆ With too high a volume level some headphones tend to produce distortion. Please turn down the volume a bit, until distortion stops.
- 19 Use the **FOOTSWITCH** jack to connect the 1/4" TRS plug of the footswitch supplied with the unit. The footswitch performs a dual function: it switches between the two channels and turns the FX on and off (VT30FX only).
- 20 The **POWER** switch turns your VIRTUBE on and off. It should always be in the OFF position when connecting the unit to the mains. Please note: Merely switching the unit off does not mean that it is fully disconnected from the mains. To disconnect the unit from the mains, pull out the mains connector. Before installation, please make sure that the mains connector has not been damaged. If you do not use the unit for an extended period of time, please disconnect it at the mains.

2.2 Rear panel

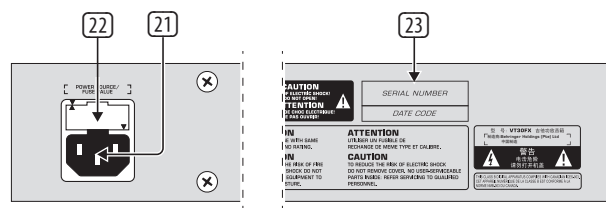


Fig. 2.2: VIRTUBE control elements (rear panel)

- 21 The **VIRTUBE** is connected to the mains using a standard IEC receptacle. A suitable power cord is included with the unit.
- 22 **FUSE HOLDER/VOLTAGE SELECTOR.** Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses must be replaced with a fuse of the same type and rating. On some units, the fuse holder can be switched to one of two positions, i.e. 230 V and 120 V. Please note: when operating the unit outside Europe at 120 V, a higher fuse rating is required (see Chapter 4, "Installation").
- 23 **SERIAL NUMBER.**

3. Application Example

The VIRTUBE features plenty of connectors for a wealth of applications. Here's an example of how flexible your VIRTUBE can be:

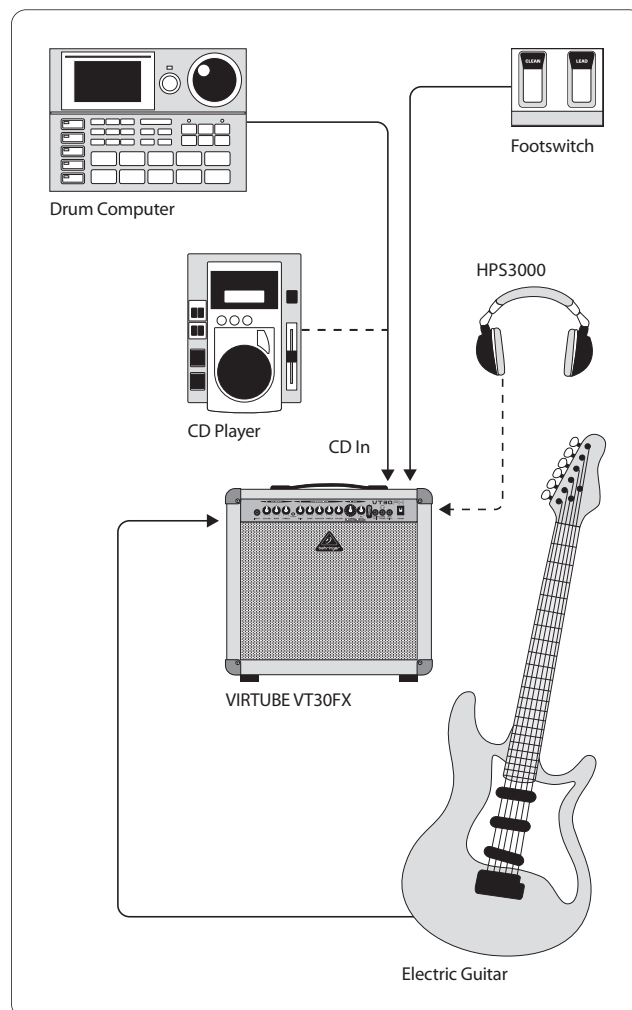


Fig. 3.1: VT30FX standard set-up

For practising in the rehearsal room or at home, please wire your VIRTUBE as shown in fig. 3.1. Connect a CD player or drum computer to the CD IN input. If you want to practice with headphones, connect your headphones to the LINE OUT/PHONES jack. The built-in loudspeaker will be muted automatically. Connect the dual footswitch supplied with the unit to the FOOTSWITCH jack on the VIRTUBE. The CHANNEL footswitch switches between the channels. The IN/OUT footswitch turns the effect on and off (VT30FX only).

4. Installation

Except for the INPUT jack (1/4" TS), all audio inputs and outputs of the BEHRINGER VIRTUBE are on 1/4" TRS connectors. Please see Chapter 5, "Specifications" for more information.

- ⚠ Please ensure that the unit is installed and operated only by people qualified to do so. During installation and operation the user must have sufficient electrical contact to earth. Electrostatic discharge may affect the operation of the unit.

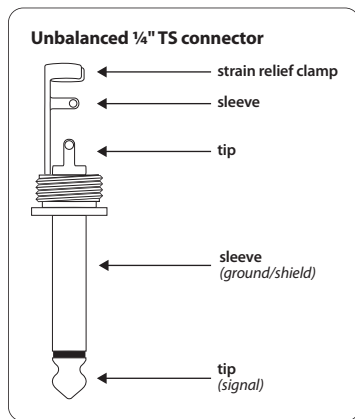


Fig. 4.1: 1/4" TS connector

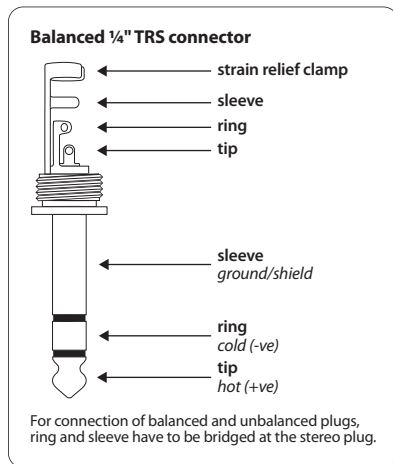


Fig. 4.2: 1/4" TRS connector

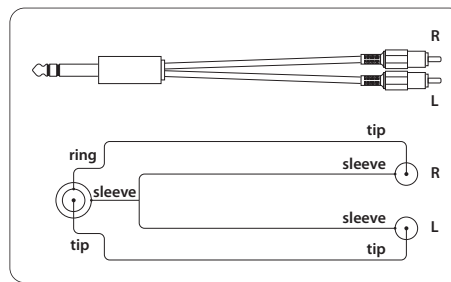


Fig. 4.3: Stereo adapter cable

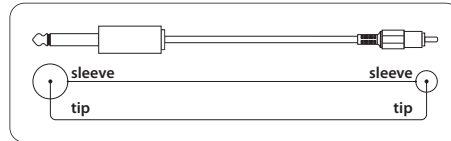


Fig. 4.4: Mono adapter cable

5. Specifications

VT30FX

Audio Inputs

Input	¼" TS· RF filtered
Input impedance	approx. 1 MΩ unbalanced
CD In	¼" TRS
Input impedance	approx. 4 kΩ unbalanced

Audio Outputs

Line Out / Phones	¼" TRS, unbalanced
Output level	max. +10 dBV
Output impedance	100 Ω

Amplifier

Peak power	30 Watts / 4 Ω
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Digital Signal Processing

Converter	24-bit sigma-delta
Sample rate	40 kHz

Loudspeaker

Type	10"
Model	BUGERA Vintage Guitar Series 10G50J4
Impedance	4 Ω
Continuous power	50 Watts (IEC268-5)
Peak power	200 Watts

Power Supply

Power consumption	45 Watts
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Fuse

100 - 120 V~, 50/60 Hz	T 1.25 A H 250 V
220 - 230 V~, 50/60 Hz	T 630 mA H 250 V
Mains connection	Standard IEC receptacle

Dimensions / Weight

Dimensions (H x W x D)	16.9 x 18.7 x 9.4" / 430 x 475 x 240 mm
Weight	24.2 lbs / 11 kg

VT15FX

Audio Inputs

Input	¼" TS· RF filtered
Input impedance	approx. 1 MΩ unbalanced
CD In	¼" TRS
Input impedance	approx. 4 kΩ unbalanced

Audio Outputs

Line Out / Phones	¼" TRS, unbalanced
Output level	max. +10 dBV
Output impedance	100 Ω

Amplifier

Peak power	15 Watts / 4 Ω
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Digital Signal Processing

Converter	24-bit sigma-delta
Sample rate	40 kHz

Loudspeaker

Type	8"
Model	BUGERA Vintage Guitar Series 8G30A4
Impedance	4 Ω
Continuous power	30 Watts (IEC268-5)
Peak power	120 Watts

Power Supply

Power consumption	25 Watts
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Fuse

100 - 120 V~, 50/60 Hz	T 800 mA H 250 V
220 - 230 V~, 50/60 Hz	T 400 mA H 250 V
Mains connection	Standard IEC receptacle

Dimensions / Weight

Dimensions (H x W x D)	15.7 x 14.8 x 8.0" / 400 x 375 x 205 mm
Weight	19.8 lbs / 9 kg

VT15CD**Audio Inputs**

Input	¼" TS- RF filtered
Input impedance	approx. 1 MΩ unbalanced
CD In	¼" TRS
Input impedance	approx. 4 kΩ unbalanced

Audio Outputs

Line Out / Phones	¼" TRS, unbalanced
Output level	max. +10 dBV
Output impedance	100 Ω

Amplifier

Peak power	15 Watts / 4 Ω
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Digital Signal Processing

Converter	—
Sample rate	—

Loudspeaker

Type	8"
Model	BUGERA Vintage Guitar Series 8G30A4
Impedance	4 Ω
Continuous power	30 Watts (IEC268-5)
Peak power	120 Watts

Power Supply

Power consumption	25 Watts
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Fuse

100 - 120 V~, 50/60 Hz	T 800 mA H 250 V
220 - 230 V~, 50/60 Hz	T 400 mA H 250 V
Mains connection	Standard IEC receptacle

Dimensions / Weight

Dimensions (H x W x D)	15.7 x 14.8 x 8.0" / 400 x 375 x 205 mm
Weight	19.8 lbs / 9 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services US Inc.**
 Address: **18912 North Creek Parkway,
 Suite 200 Bothell, WA 98011,
 USA**
 Phone/Fax No.: **Phone: +1 425 672 0816
 Fax: +1 425 673 7647**

VIRTUBE VT30FX/VT15FX/VT15CD

complies with the FCC rules as mentioned in the following paragraph:

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 device 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 Group can void the user's authority to use the equipment.



We Hear You