

BMT

TUBE WIZARD IV

Guitar Preamp



OWNER'S MANUAL

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1. INTRODUCTION

Dear user!

We are pleased to introduce you the guitar tube preamp **Tube Wizard IV**. Designed for modern guitarists, Tube Wizard IV is **ALL TUBE** and has **three separate channels** of audio processing:

CLEAN - clean and slightly overdriven sound

CRUNCH - average level of overdrive

LEAD - high level of overdrive

All channels have **separate EQs**, which gives you a possibility to create great diversity of sound characters.

SOLO switch lets you adjust the volume when you play. This is a key function during live performances.

Preamp is equipped with **FX LOOP** (parallel to serial adjustable), which is crucial when you are looking for balance in preamp/effect sound.

Preamp has a progressive cabinet emulation system, so that you get an excellent guitar sound not only when connected to a guitar amp or power amp, but when you play "in-line" and in headphones.

Tube Wizard IV will surprise you with a variety of options and shades of sound – you can get everything starting from crystal clean sound to a massively overloaded roar!

You are welcome to get acquainted with all the possibilities of Tube Wizard IV, and after that – just experiment! Take time to familiarize yourself with the wide range of sounds the preamp offers.

Tube Wizard IV will respond to every nuance of your performance!

Best wishes,

BMT Team

2. SAFETY PRECAUTIONS & WARNINGS

PLEASE, ALWAYS OBSERVE THESE PRECAUTIONS:

- **CAUTION! DANGER! High voltage! Risk of electric shock!** The device is under high voltage, life-threatening. To avoid electric shock, do not remove the instrument cover and do not try to make repairs. There are no user serviceable parts inside.
- Keep the device away from children.
- Before using, make sure the device is properly grounded.
- In order to avoid fire or electric shock the device must not be exposed to rain or moisture. Do not place objects filled with liquid on top of the device.
- Tube Wizard IV is equipped with a grounded power cord to prevent possible electric shock. The power cord must be connected to the grounded AC sockets. Do not disassemble the AC power receptacle.
- When replacing the fuse, disconnect the preamp from mains and use fuses of the correct type and rating.
- Lay the mains cable so that it is not stepped on and avoid its contact with sharp subjects.
- **WARNING!** All service instructions are intended only for qualified personnel in order to avoid electric shock; do not carry out any repair works which are not described in the instruction manual. **Repair works must be carried out only by qualified experts.**

To avoid possible damage of the preamp:

- Do not block or cover vent slots.
- In case of thunderstorm or fire disconnect the device from the mains.
- If the device is not used for one hour or more, disconnect it from the mains.
- Do not store or operate the device in high humidity conditions.
- Do not place the device in direct sunlight or near a heater.
- Do not drop or throw the device.
- When connecting to a mains supply, make sure that the power supply complies with the device (correct voltage for your region)
- Change audio connections only when the device is turned off.
- Do not apply excessive force to the switches and controls.
- To clean the preamp do not use solvents, use clean and dry cloth.

3. COMPLETE SET

The complete set includes:

- ✓ The guitar preamp Tube Wizard IV
- ✓ The power cord
- ✓ User's manual (printed or pdf version)

4. GENERAL INFORMATION

The preamp Tube Wizard IV has three separate channels CLEAN, CRUNCH and LEAD and traditional passive EQs with adjustable BASS, MIDDLE and TREBLE, regulators GAIN, VOLUME and SWEEP (regulator of the frequency level). DRIVE MODE switch gives you + 9 options of overload character on LEAD channel. This allows to create a sound which is close to the sound of preamps of many famous amplifiers. SOLO switch lets you adjust the volume while playing. This is a key function during live performances.

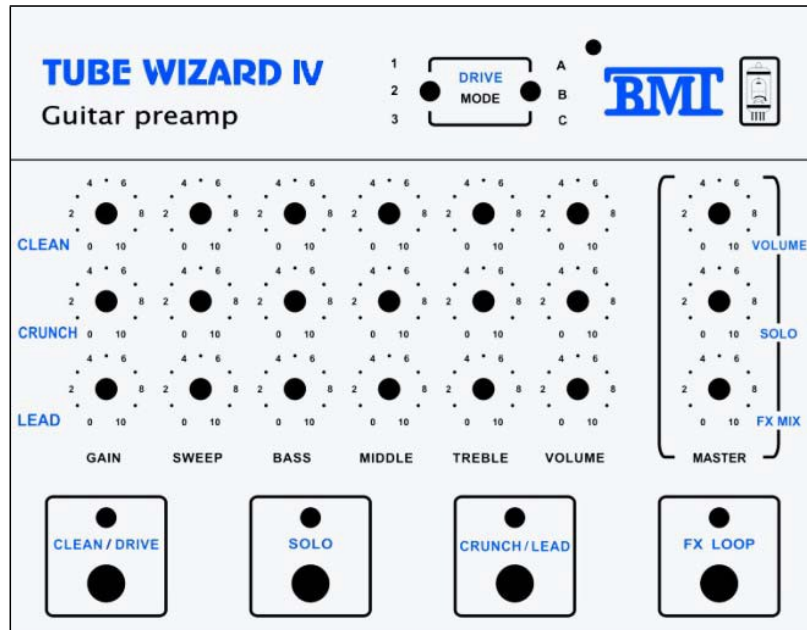
Controls in channel lines (GAIN, SWEEP, BASS, MIDDLE, TREBLE, VOLUME) perform similar functions in the respective channels. FX MIX control regulates the ratio of signal preamp / effect.

The VOLUME control in MASTER-section changes the overall volume of the preamp. The preamp is equipped with BUILT-IN 2 W POWER AMP which allows you to connect the preamp directly to the guitar cabinet, HiFi speaker system or headphones, which is really convenient if you do not have an external power amplifier.

5. CONTROLS

For convenience, we will explain the controls, using the analogy with the position of the clock (for example: GAIN control in position 11:00).

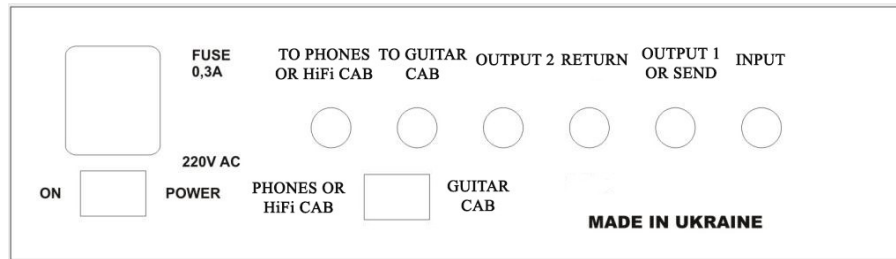
FRONT PANEL:



1. GAIN (sensitivity) controls not only regulate the total gain and sensitivity of the corresponding channel, but also significantly change the character of the sound. Low settings (7:00-11:00) create the most clean and clear timbre with high dynamic range (especially at high frequencies). If the level of control is raised the sound becomes more dense and congested, especially on drive channels.
2. SWEEP (shift) control determines the overall sound spectrum of the channel. At low levels (7:00-11:00) low frequencies are emphasized, at medium (11:00-2:00) the entire frequency range increases evenly, and at high levels (2:00-5:00) high frequencies are highlighted.
3. BASS (low) control determines the amount of low frequencies in the output signal of the preamp. Excess of low frequency makes the sound of the instrument illegible and boomy. For clean rhythm tones it is recommended to set the BASS at the middle level (12:00-2:00), and for overdrive rhythm tones with high gain at the level 11:30 or less.
4. MIDDLE control affects the mid-frequency range of the signal. Strengthening of the midrange allows to create a more "cut-through" and vivid sound. In some cases, it can be used to brighten the guitar sound from the overall sound of the band. Low levels of the control cut midrange frequencies, giving a characteristic sound, often used in heavy music.
5. TREBLE (high) control determines the level of treble in the signal and is the most effective of all the timbre regulators. You need to know that TREBLE levels, that are too high or too low, can lead to an unbalanced sound. At high levels of the control (3:00-5:00) the sound is bright and "glassy". At low

levels (7: 00-10: 00) the impact of this regulator decreases and the sound becomes “warmer”. It is recommended to use this control with great care, it will give the best results.

6. VOLUME control sets volume of the corresponding channel.
7. DRIVE MODE switches change the sound on LEAD channel. A / B / C switch changes the timbre of the sound on LEAD channel. 1/2/3 switch changes the character of the overdrive on LEAD channel. Thanks to these switches you can get the sound character which is close to preamps of many famous sound amplifiers. If you want to get a “clean” sound on CRUNCH channel when volume of guitar is decreased, then 1/2/3 switch should be installed in position 1.
8. CLEAN / DRIVE and CRUNCH / LEAD footswitches allow to switch between the channels. When CLEAN channel is on, the green LED near the switch CLEAN / DRIVE glows. When CRUNCH channel is on, green LED near the switch CRUNCH / LEAD glows. When LEAD channel is on, the LED turns red.
9. SOLO footswitch is used to activate the SOLO mode (change in volume). When you activate SOLO mode, yellow LED near the corresponding switch glows.
10. FX LOOP footswitch is used to connect the pedal effects or processors plugged in the loop (send and return) of the preamp. When you activate FX LOOP red LED near the switch FX LOOP glows.
11. MASTER-section controls: VOLUME sets the level of total volume of the preamp; SOLO changes the level of volume on the corresponding mode when SOLO mode is on; FX MIX sets the ratio of signal of the preamp and effects/processors pluggged in the loop of the preamp. When FX LOOP is on, turning the control clockwise increases the signal level from effect/processor, when installing FX MIX control to the rightmost position the entire signal passes through effect/processor, so loop turns into a serial. If the effects are not used in the loop and the signal is taken from the OUTPUT 2, it is recommended to set the FX MIX control to the leftmost position.

REAR PANEL:

12. The power cord is connected to the power receptacle. For safety reasons, the power cord should be connected only to grounded AC sockets with the voltage level used in your country (Europe – about 220-230V, USA – 120V). The main fuse compartment is at the top of the power receptacle. Use the 0.3A fuse for Europe, and 0.5A fuse for USA. To replace the fuse, disconnect the device from the mains, push the fuse compartment, replace the fuse and install the cover back into its place.
13. TO PHONES OR HiFi CAB output is created to connect headphones or HiFi speaker system, and also the mixing console or to the digital audio interface. The main feature of this output is that it emulates the sound of a full PA system.
In this output connections are made **only with stereo jacks to avoid damaging the preamp.**
14. TO GUITAR CAB output is for connection of the preamp to the guitar cabinet.
15. OUTPUT 2 connects the preamp to the input of the power amplifier or to the RETURN of guitar amp (depending on the type of amplifier). Use only OUTPUT 2 for connection with the external power amp , when the effects are plugged in in the loop, for connection to the mixer / digital audio interface - only TO PHONES OR HiFi CAB output.
16. The OUTPUT 1 OR SEND serves to connect the preamp to the input of an external power amplifier, to the RETURN of guitar amp or to the input of the external effect / processor. The level of signal to the external effects adjusts with the VOLUME MASTER-section control. The level of signal from OUTPUT 1 is about 3 times less than from the OUTPUT 2.
17. RETURN input (return of an effect) is used to connect the external effect / processor.
18. INPUT is meant for guitar connection.
19. POWER switch is designed to connect the preamp to the mains. Power is on, when the switch is set to ON position.
20. PHONES OR HiFi CAB / GUITAR CAB switch is used to select the type of load. When the switch is in the PHONES OR HiFi CAB position, connect the phones or HiFi speaker system to the TO PHONES OR HiFi CAB output. When the switch is in GUITAR CAB position, connect the guitar cab to the TO GUITAR CAB output. If the guitar cabinet is not used, it is recommended to set the switch to PHONES OR HiFi CAB.

6. SPECIFICATIONS

- ✓ **Tubes:** 2 x 12AX7
- ✓ **Input impedance:** 1M Ω
- ✓ **Output 1 and Output 2 impedance:** 2 k Ω
- ✓ **Poweramp output impedance:** minimum 8 Ω
- ✓ **Power output:** 2W
- ✓ **Power supply:** Standard 220 V 50/60 Hz / or
Custom made varies from country or region
- ✓ **Power consumption:** not more than 18W.
- ✓ **Dimensions:** L x W x H about 260 x 210 x 85 mm
(10.3 x 8.3 x 3.4 inches)
- ✓ **Weight:** about 2.1 kg (4 lb 10 oz)

Dear user! Thank you for choosing our preamp.

Tube Wizard IV will be reliable and creative assistant during your journeys in the world of music.

*If you have any questions, please get in touch with us on
bmtampsua@gmail.com*

*We wish you lots of inspiration!
Play and enjoy!*