

# MIGHTY50X

DIGITAL GUITAR AMPLIFIER



## *OWNER'S MANUAL*

[www.nuxefx.com](http://www.nuxefx.com)



**50**W

**RoHS**

**CE**

**WARNING: IMPORTANT SAFETY INSTRUCTIONS  
BEFORE CONNECTING, READ INSTRUCTIONS**

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Never break off the ground pin on the power supply cord.
3. Never attempt to by-pass the fuses or fit ones of the incorrect value.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.
5. Refer all servicing to qualified service personnel.  
Servicing is required when the apparatus has been damaged in any way, such as when the 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.
6. 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 is provided for the safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
7. Do not allow liquids of any kinds water, soft, drinks, etc. to penetrate the unit.  
Never place objects filled with liquids, such as vases or glasses on the MIGHTY50X as this can cause electric shock.  
Do not place naked flame sources, such as lighted candles, on the MIGHTY50X as this can cause fire.
8. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
10. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

*Follow all instructions and heed all warnings*  
**KEEP THESE INSTRUCTIONS!**

### OVERVIEW:

We are delighted that you chose to purchase our 50 Watt combo: MIGHTY50X.

MIGHTY50X is a solid 50 Watt digital guitar amplifier that will give you the ultimate playing experience! By using 32bit DSP, 44.1KHz/24bit AD/DA converters and our TSAC (True Simulation of Analog Circuit) technology, the MIGHTY50X supplies amazing guitar amp and EFX sounds.

The preamp was developed to accurately simulate the way an all-tube amplifier interacts with a loudspeaker and has four modulation and two ambience effects. Four user presets can be stored.

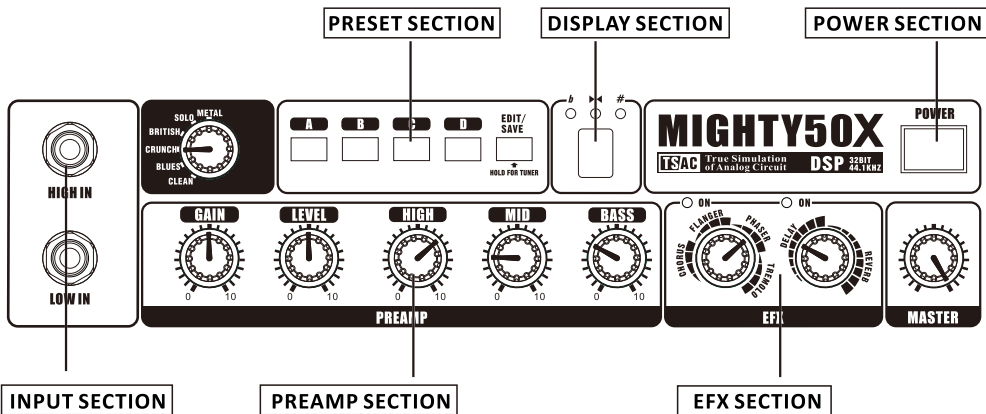
Useful functions, such as a built in tuner, AUX IN & a PEDAL jack, Headphones/MIXER outputs make your practice and show perfect!

12 inch custom speaker and 50 Watts of power create a very powerful amplifier that's portable enough for the road or studio use.

### FEATURES

- Six amp sounds using TSAC(True Simulation of Analog Circuit) technology.
- Cutting edge tube clipping simulation algorithm.
- Three band vintage style EQ gives the response of a tube guitar amp.
- Four modulation effects: CHORUS, FLANGER, PHASER & TREMOLO.
- DELAY and REVERB effects can be used with modulation effects simultaneously.
- Built in tuner with 7-segment LED display.
- Store up to four presets.
- Dual guitar inputs for vintage and hot guitar pickups.
- AUX IN input allows jamming with an external music-playback device (MP3 player, etc.)
- PEDAL Jack allows you to switch the presets up and down.
- Headphones/Mixer output.
- 50 Watts RMS power output.
- 12 inch custom speaker.

### MIGHTY50X FRONT PANEL



#### INPUT SECTION

##### ● HIGH IN (high level signal input):

This input is best suited for guitars with high output pickups such as over-wound humbuckers or active pickups.

##### ● LOW IN (low level signal input):

This input jack is recommended for use with a guitar loaded with low output pickups, such as single-coil.

#### PREAMP SECTION

##### ● AMP TYPE KNOB: Select from the following six types.

- **CLEAN:** This is modeled on very clean solid-state amps.
- **BLUES:** This is modeled on the classic American blues sound amplifiers with four 10-inch speakers that produce a clear upper-midrange with a fat low end, and its unique crunch tones make it a favorite of blues-rock guitarists.
- **CRUNCH:** This is modeled on the sound and response of a legendary UK classic stack from the 60's. It's renowned for its tight low end, and smooth presence for classic and hard rock.
- **BRITISH:** This is modeled on the British class-A combo amp that created the Liverpool sound of the 60's. It can produce a clear low-midrange with tight low end.
- **SOLO:** This is modeled on the American modern high gain amp. This super high gain amp is a favorite for lead sounds or 80's metal.
- **METAL:** This is modeled on the famous metal pedal created in the 90's. It can produce tons of bottom and shocking upper-midrange.

- **GAIN:** This knob adjusts the preamp gain of the chosen amp model.
- **LEVEL:** This knob adjusts the volume of the preamp.
- **EQ:** The HIGH, MID and BASS knobs affect all amps. MID and HIGH influence each other, an attribute considered normal and desirable in a tube amp. Boosting HIGH decreases midrange honk and vice versa. Jacking up the mid cuts back on the high-end shimmer.

### EFX SECTION

- **CHORUS/FLANGER/PHASER/TREMOLO:**

Turn this knob to select CHORUS, FLANGER, PHASER, OR TREMOLO. Adjust the amount of effect applied by varying the position of the pointer within the effect range. The red indicator above this knob lights up when EFX is turned on, and goes out when EFX is turned off.

**NOTE:** Graduations for CHORUS, FLANGER, PHASER AND TREMOLO on the panel are for reference. Be sure to check the sound as you adjust the effects.

- **CHORUS**

A Chorus adds a short delay to your signal. The delayed signal is modulated in and out of tune and then mixed back with the original signal to create a thicker sound.

- **FLANGER**

A Flanger uses the same principle as Chorus but uses a shorter delay time and adds regeneration (or repeats) to the modulating delay. This results in an exaggerated up and down sweeping motion to the effect.

- **PHASER**

A phaser splits the incoming signal, and then changes the phasing of the signal. This signal is then taken in and out of phase and mixed back in with the original signal. As the phasing changes, different frequencies get canceled resulting in a warm sort of twisting sound.

- **TREMOLO**

A Tremolo is basically a change of the signal level controlled by an LFO.

- **DELAY/REVERB**

Turn this knob to select DELAY or REVERB. Turn the knob to adjust the amount of effect applied.

The red indicator above this knob lights up when DELAY/REVERB effects is turned on, and goes out when the effect is turned off.

**NOTE:** Graduations for DELAY and REVERB on the panel are for reference. Be sure to check the sound as you adjust the effects.

### ● DELAY

A Delay is an effect that records a portion of the incoming signal, and then plays it back a long time later. The recording can repeat just once or several times.

### ● REVERB

Turn the knob to adjust the reverb level.

### PRESET SECTION

#### ● Preset select buttons ([A],[B],[C],[D]):

Pressing these buttons selects a preset. To save a preset press [EDIT/SAVE] button to enter [EDIT] mode, adjust the knobs to get the tone you want, and then press the [A], [B], [C], or [D] button to save the settings(The preset will be saved automatically).

#### ● [EDIT/SAVE] button: Pressing this button gets into the [EDIT] mode for [A], [B],[C], or [D] presets.

**NOTE:** To activate the tuner press and hold [EDIT/SAVE] button for 2 seconds.

### DISPLAY SECTION

#### ● 7-segment LED: Indicates the preset number [A], [B],[C], [D] and [E](Edit mode). Lights up to indicate the pitch name in the tuning mode.

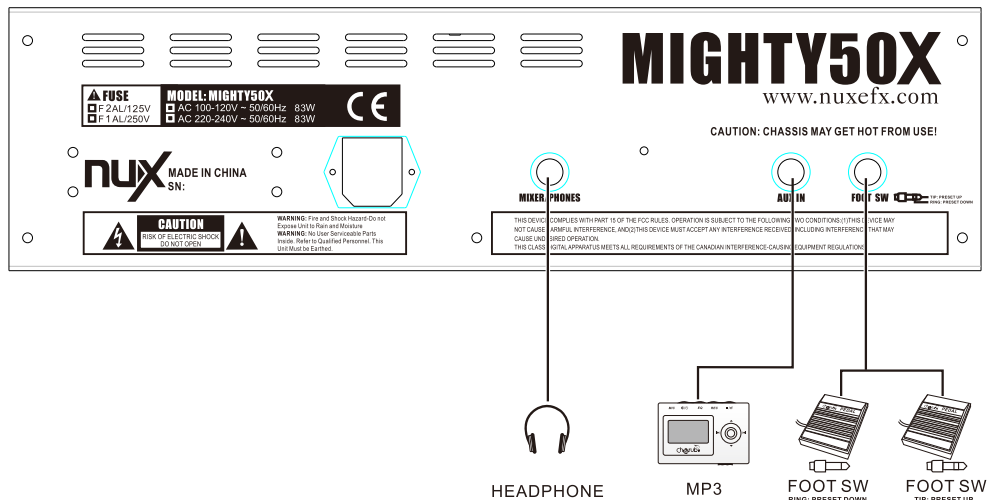
#### ● Red and Green LEDs: Lights up to indicate the pitch is sharp, flat or in tune(green).

### POWER SECTION

#### ● MASTER Volume: Adjusts the overall volume of the amplifier without affecting your tone.

#### ● Power switch: Switches the power on and off.

## MIGHTY50X BACK PANEL



### ● PEDAL SW JACK:

Connect one or two pedals to the jack, you can loop the presets (with one pedal connected) or change(up/down) presets (with two pedals connected).

### ● AUX IN JACK:

You can connect a CD player, MP3 player or other device to this 6.35mm jack to play along with your guitar.

**NOTE:** Adjust the volume level by adjusting the volume control of the connected device.

### ● MIXER/PHONES JACK:

Use mono 1/4" phone plugs when connecting outboard equipment to this jack. Connect headphones to this jack.

**NOTE:** No sound is played through the unit's speaker while the MIXER/PHONES jack is in use.

### ● MAINS IN:

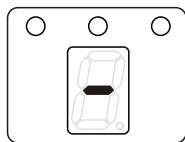
Connect the included mains cord to this socket. Ensure the amp's voltage rating matches your local AC power rating before you plug the cord into the wall outlet.

### TUNER

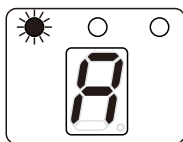
1. Press and hold EDIT/SAVE for 2 seconds. When the display lights, you are in tuning mode.
2. Play a single note on the open string. Note: No sound is played through the unit's speaker while the tuner function is in use.

**NOTE:** Reference Pitch; A4=440Hz

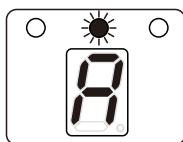
3. Tune the string until the green indicator lights.



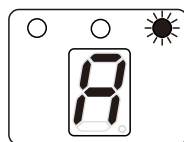
Tuning mode



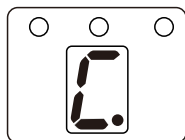
Flat



In tune



Sharp



● The dot in the lower right corner indicates the note is sharp (ie, C<sup>#</sup>, D<sup>#</sup>, F<sup>#</sup>, G<sup>#</sup>, A<sup>#</sup>).

### FACTORY SETTING RESET

To reset the factory settings, please press and hold [A] button under the tuner mode. When the display shows [F] and flashes, press [Edit/Save] button to reset the factory presets.

**WARNING: THIS WILL ERASE ALL YOUR CUSTOM SOUNDS, SO BE SURE YOU WANT TO START FRESH BEFORE YOU DO IT!**

### SPECIFICATIONS

<b>Sampling frequency:</b>	44.1kHz
<b>A/D, D/A convert:</b>	24bit
<b>Signal processing:</b>	32bit
<b>Nominal Input impedance:</b>	1Mohms
<b>MP3/CD Input:</b>	-10dBu/3.3kohms
<b>HEADPHONES output:</b>	250mW+250mW(into 32-ohm load)
<b>Display:</b>	7-segment LED
<b>Tuning Range:</b>	E <sub>0</sub> (20.60Hz) - C <sub>8</sub> (4186Hz)
<b>Reference Pitch:</b>	A4 =440Hz
<b>Power output:</b>	50W RMS (THD+N<10%)
<b>Power Supply:</b>	AC 100-120V, AC220-240V
<b>Power Consumption:</b>	83W
<b>Dimensions:</b>	49(L)X26.5(W)X43(H)cm
<b>Weight:</b>	15kg
<b>Accessories:</b>	Power cord, Owner's Manual, Cherub WTB-004(OPTIONAL)

**NOTE:** In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.



## FACTORY PREST SETTINGS

### ULTRA CLEAN

Diagram showing the factory preset settings for the Ultra Clean mode. The settings are as follows:

- Input:** HIGH IN (selected)
- Channel:** SOLO METAL (selected)
- EQ Presets:** A, B, C, D (all unselected)
- EDIT/SAVE:** HOLD FOR TUNER (selected)
- Effects:** FLANGER, PHASER, DELAY, REVERB, TREBLE (all OFF)
- Master:** (unselected)
- PREAMP:**
  - GAIN: 10
  - LEVEL: 10
  - HIGH: 10
  - MID: 10
  - BASS: 10

### CRUNCH ROCK

Diagram showing the factory preset settings for the Crunch Rock mode. The settings are as follows:

- Input:** LOW IN (selected)
- Channel:** BRITISH (selected)
- EQ Presets:** B (selected)
- EDIT/SAVE:** HOLD FOR TUNER (selected)
- Effects:** FLANGER, PHASER, DELAY, REVERB, TREBLE (all OFF)
- Master:** (unselected)
- PREAMP:**
  - GAIN: 10
  - LEVEL: 10
  - HIGH: 10
  - MID: 10
  - BASS: 10

### SUPER LEAD

Diagram showing the factory preset settings for the Super Lead mode. The settings are as follows:

- Input:** LOW IN (selected)
- Channel:** SOLO METAL (selected)
- EQ Presets:** C (selected)
- EDIT/SAVE:** HOLD FOR TUNER (selected)
- Effects:** FLANGER, PHASER, DELAY, REVERB, TREBLE (all OFF)
- Master:** (unselected)
- PREAMP:**
  - GAIN: 10
  - LEVEL: 10
  - HIGH: 10
  - MID: 10
  - BASS: 10

### HEAVY METAL

Diagram showing the factory preset settings for the Heavy Metal mode. The settings are as follows:

- Input:** LOW IN (selected)
- Channel:** SOLO METAL (selected)
- EQ Presets:** D (selected)
- EDIT/SAVE:** HOLD FOR TUNER (selected)
- Effects:** FLANGER, PHASER, DELAY, REVERB, TREBLE (all OFF)
- Master:** (unselected)
- PREAMP:**
  - GAIN: 10
  - LEVEL: 10
  - HIGH: 10
  - MID: 10
  - BASS: 10

### **THE FCC REGULATION WARNING (for U.S.A.)**

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.

### **CE mark for European Harmonized Standards**

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.

©2013 Cherub Technology--All rights reserved. No part of this publication may be reproduced in any form without prior written permission of Cherub Technology.