

# USER's PC TUNING SOFTWARE MANUAL

## GOLDHORN DSPA 206

### PC software

Recommended specifications:

CPU: 1.6 GHz or higher

Memory: 2GB or higher

HDD: 1GB or more available space

Display: 1366×768 or higher

OS: Microsoft™ Windows 7 or higher

### Device Connection

(1) Device not connected:



(2) Successfully connected via the included USB cable:



### (3) Connection status:

If the ● is black, the device is not connected. No operation can be done.

If the ● is Red, the device is connected, and the model will be displayed. The tuning software is ready for use.

## PC software interface

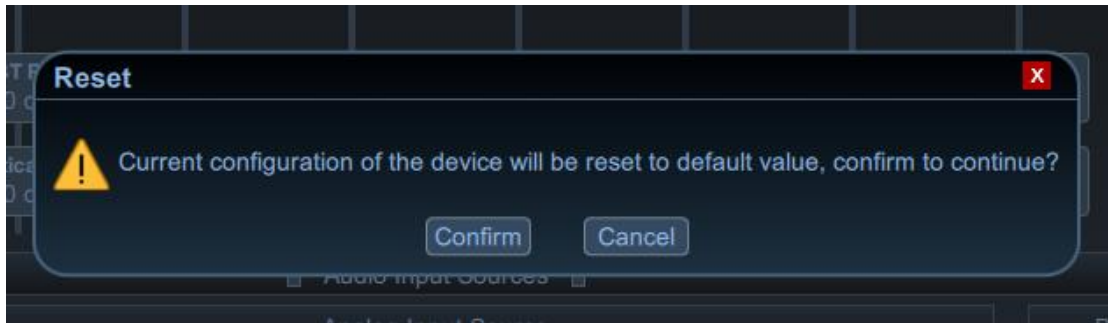
### 2.1 Menu bar introduction

#### 2.1.1 Load/Export

- 1) Load: The tuning parameter files previously saved on the PC can be loaded for re-editing.
- 2) Export: When exporting the tuned parameters, you need to set a password to protect the exported file. Please remember the password. Without it the Tuning parameter file cannot be loaded.
- 3) The exported tuning parameter file contains the data for 6 outputs channels.

#### 2.1.2 Reset

- 1) If you need to reset to restore the default values, you can click “Confirm” to take effect.
- 2) The reset is only valid for the interface in editing. The mode stored in the device will not be affected.



### 2.1.3 Mode

- 1) Save: Save the tuned parameters to the device and switch the saved modes using the Remote Controller for DSP. (Naming up to 10 characters, only English and numbers are supported)
- 2) Choose: Get the chosen parameters from the device for editing.
- 3) Delete: Delete the selected mode from the device.
- 4) Please save the parameter configuration to the mode after tuning to avoid it being cleared after a power failure.



### 2.1.4 language

The tuning software supports Chinese and English and can be switched between each other.

### 2.1.5 About

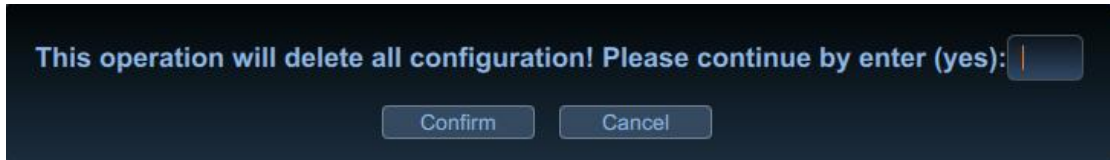
Displaying the device type, device SN, Bluetooth Version, hardware version, firmware version, panel version and software version, etc.

#### 1) Firmware version update

If a newer version of the device firmware is available, an upgrade  will appear at the firmware version information, click on the  to start the firmware version upgrade of the device.

#### 2) Factory Reset

If need to restore the factory settings, you must first enter: yes in the prompt box and then click Comfirm to take effect.



Performing a factory reset will erase all modes and presets. Please use with caution.

### 3)Set Connection Password

You can set an 8-digit password (English and numbers only) to encrypt the device. Please remember the connection password, if you forget it you will not be able to tune the device and will have to restore the factory settings.

## 2.2 I/O

This screen allows you to assign the appropriate input source signal to each output channel (Out A to Out F) according to your needs.

### 2.2.1 Output channels selection

1)Output channels contain four high level outputs(FL/FR/RL/RR) and six RCA outputs(CH1~CH6).Outputs A to D are high level outputs sharing channels with RCA outputs.

2)Refer to the GDT06 user's manual for detailed outputs location.

3)Click on the output channels(Out A to Out F) to start the tuning operation.



### 2.2.2 Input Sources

1) Input Sources contain four high level inputs and two AUX inputs, Bluetooth input.

2)Refer to the GDT06 user's manual for detailed inputs location.



3) Each output channel can be added to the Analog input source by dragging the mouse or double-clicking with the left button. Users can add inputs by drawing them (IN1~IN4) to the output channels, axis or double click them with left button of the mouse.

4) Inputs on each output channel axis can be deleted with a right click of the mouse.

5) Up to 4 combined frequency inputs per output channel.

6) Users can set alias and phase to input sources (high level input/AUX input).

### 2.2.3 Remix Mode

1) Navigation Mode: The device will reduce the volume of other input sources if it detects a high level signal input (default -50dB). Users can customize gain decay for other input sources, sensitivity of high level signal detection and the release time when no high level signal is detected.

2) Bluetooth Priority: Other input sources will be switched off, if Bluetooth signal input is detected.

3) Classical Mode: Each input source operates independently without interference.



### 2.2.4 Alias setting

1) Aliases can be set for each of the six output channels.

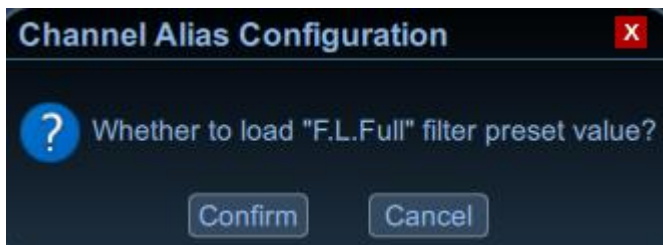


2)After aliasing the output channels, you will be prompted to load the filter preset value or not.

If you select yes, the filter preset value will be loaded automatically:Butterworth@12dB/Oct.

(Full range:0 ~ 20KHz, High range:3K~20KHz, Middle range:500~3KHz, low range:20~500Hz, Subwoofer:20~80Hz)

If you select NO, it is only an alias is set and no modification is made to the parameters of the filter.



## 2.3 Main

This screen allows you to adjust the equaliser for each output channel (OutA to OutF) to suit your needs.



### 2.3.1 Output channels curve edit area

EQ band :15-band EQ for A/B channels, 10-band EQ for C/D channels, 5-band EQ for E/F

channels.

When the mouse is moved to a number, users can drag it up and down to adjust the EQ gain, left and right to adjust the EQ frequency; when the mouse moves over the small red box, users can drag left and right again to adjust the EQ Q value. The current parameters will be displayed the serial number, and will also update the values in the EQ parameter display edit area.

#### 4.3.2 Output equaliser editing area



##### 1) Numerical edit area

Frequency: 1 Hz step @ 20 Hz - 20 kHz. The frequency values can be adjusted by entering the values directly or by using the up and down keys on the keyboard. Click on the reset button on the left to reset the current frequency values of all adjustment points back to their default values.

Q: 0.5 ~ 1.5. The Q values can be adjusted by entering the values directly or by using the up and down keys on the keyboard. Click on the left button on the left to reset the current Q values of all adjustment points back to their default values.

Gain:  $\pm 15$  dB. The Gain values can be adjusted by entering the values directly or by using the up and down keys on the keyboard. Click on the reset button on the left to reset the current Gain values of all adjustment points back to their default values.

##### 2) Dragging the edit area

Left mouse click to enter the dragging edit area, which is the gain edit area only.

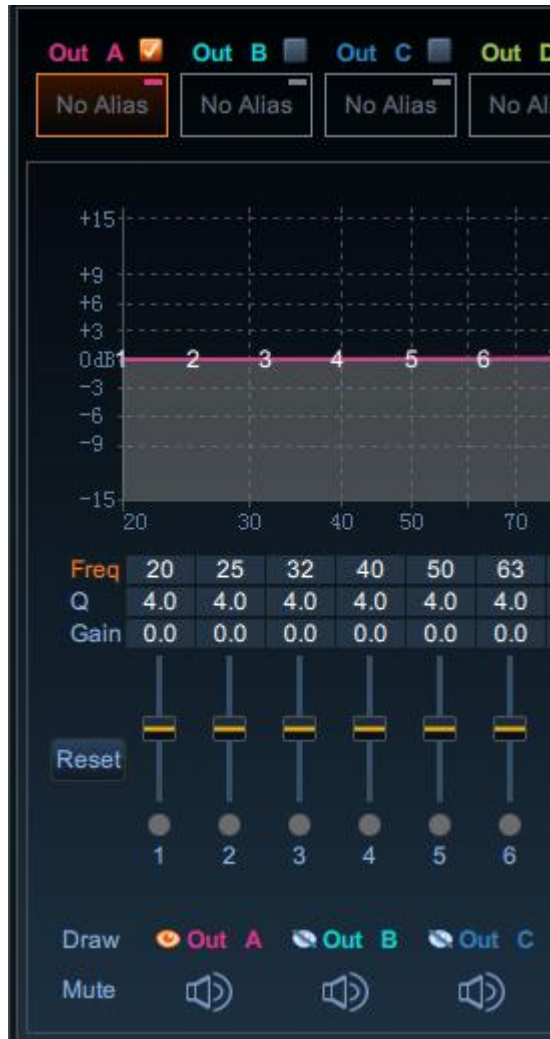
Gain:  $\pm 15$  dB. The Gain can be adjusted directly by dragging the mouse up and down, the up and down keys on the keyboard, or by sliding the mouse wheel.

Reset/Recovery: Left mouse button Click the yellow dot on the sliding bar with left mouse button to reset or recovery previously edited gain values.

### 3) Draw and Mute

1、The display of the output channel frequency curve can be switched on and off by clicking on the draw icon in each output channel with the left mouse button.

2、 Below the draw is the independent mute switch for each channel.



### 2.3.3 H.P.Filter/L.P.Filter

1)Each channel is equipped with H.P.Filter/L.P.Filter , ticking the box to be effective.

2)There are three types of filter:Linkwitz/Bessel/Butterworth.

3)The crossover filter can be adjusted by entering the value directly, by using the up and down keys on the keyboard, or by dragging H/l in the editing area of the frequency response curve, the adjustment range is: 20Hz~20KHz.

4)Crossover Filter Slope:Bessel/Butterworth@-6/-12dB

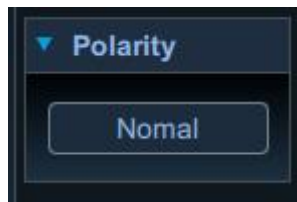


Linkwitz:@-12 dB



### 2.3.4 Polarity

Independently adjustable for each channel:Normal/Invert phase



### 2.3.5 Time Alignment Delay

Time Alignment Delay:0~5ms/0~170cm

## 2.4 Bottom edit area

### 2.4.1 Main Volume

Main volume refers to the volume of all channels and can be adjusted by entering the value directly, by using the left and right keys on the keyboard or by dragging the slider left and right with the mouse, the adjustment range is: Mute/ 0~60 levels(-100dB~0dB).

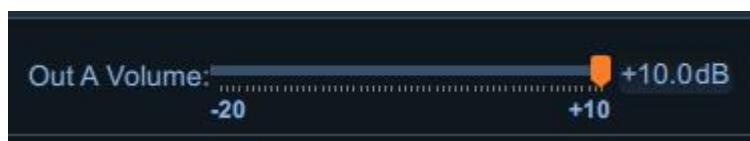


## 2.4.2

1) The volume of each output channel can be fine-tuned independently, by entering the value directly, by using the left and right keys on the keyboard, or by dragging the slider left and right with the mouse, using the total volume as the reference value. The adjustment range is: -20dB~+5dB, 0.1dB step.



2) The subwoofer can be adjusted: -20dB ~ +10dB 0.1dB steps.



## 2.4.3 Volume & EQ Link Mode

1) First Select the mode to link: Volume / EQ link, Relative/Absolute



2) Select the channel to link: first select the channel you want to edit, then tick the channel you want to link.




## 2.5 Time

In this interface you can set the delay, phase, channel mute, etc. for each channel.

- 1) Time Alignment Delay: 0~15ms/0~510cm, Independently adjustable for each channel.
- 2) Support channel delay group link, can be divided into five groups: select the same digital group of output channels can be linked operation, this link mode is link.
- 3) Independently adjustable for each channel: delay, channel mute.

GoldHorn DSP toolkits

Load Config File:Not specified Export Reset Mode 语言 I/O Main Time About State DSPA 206 GOLDHORN



Out A No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out B No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out C No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out D No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out E No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out F No Alias  
Delay - 0.00 ms +  
Link X 1 2 3 4 5 6 7 8  
Normal

Out G No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out H No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out I No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out J No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out K No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out L No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out M No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out N No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out O No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Out P No Alias  
Delay - 0.00 ms -  
Link X 1 2 3 4 5 6 7 8  
Normal

Main Volume 0 60 ms cm