STEG SDSP68 Digital Signal Processor Owner's Manual

Contents

STEG SDSP68 Digital Signal Processor

The DSP is a digital signal processor essential to maximize the acoustic performance of your car audio system.
It consists of a 32-bit DSP processor and 24-bit AD and DA converters.
It can connect to any factory system, even in vehicles featuring an integrated audio processor, since, thanks to the.
De-equalization function, the DSP will send back a linear signal.
It features selectable High and low-level inputs as well as 3.5MM Aux and digital inputs that feed 8 completely variable output
channels. Each output channel has a 31-band equalizer available.it also features a 66-frequency electronic crossover as well as.
BUTTERWORTH or LINKWITZ filters with 6-24dB slopes and a digital time delay line. the user can select adjustments.
That allows him or her to interact with the DSP through a remote control device called DRC.
WARNING:

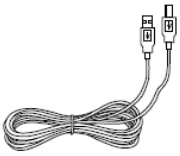
1. PC provided with Windows XP, Windows Vista, or Windows 7 operating system, 1.5GHz minimum. Processor speed, 1 GB RAM minimum memory, and a graphics card with a minimum resolution. Of 1024×600 pixels are required to install Iha software and set up Iha DSP.
2. Before connecting your DSP, carefully read this manual. Improper connections may cause damage to The DSP or to the speakers in the car audio system

PACKAGING CONTENTS

- DSP- Signal Interface Processor

- Power supply cable/Remote/wifi/Inputs

- 5.0m USB cable



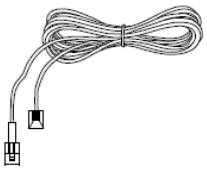
- Control High Level Input

- 4 of 4.0*15 mm self-tapping, Cross-head fixing screws,

OPTIONAL:

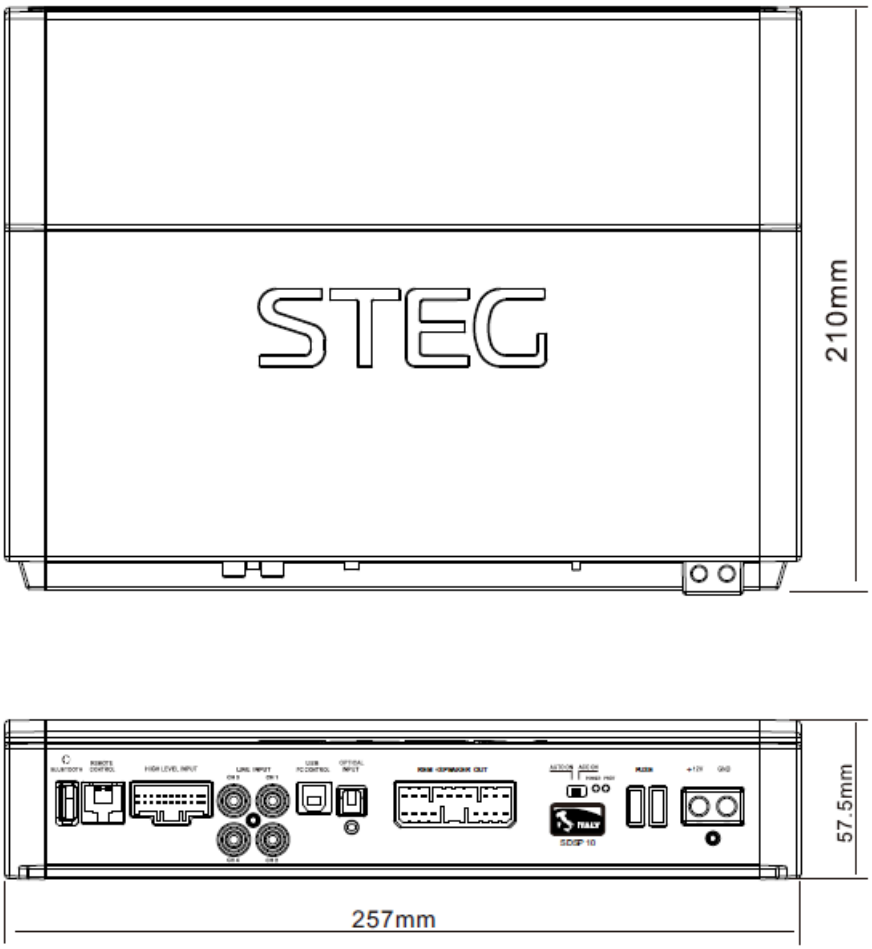
- DRC(Digital Remote Control)control panel:

- 5.0 m DRC-AC Link cable



DSP AND DRC INSTALLATION

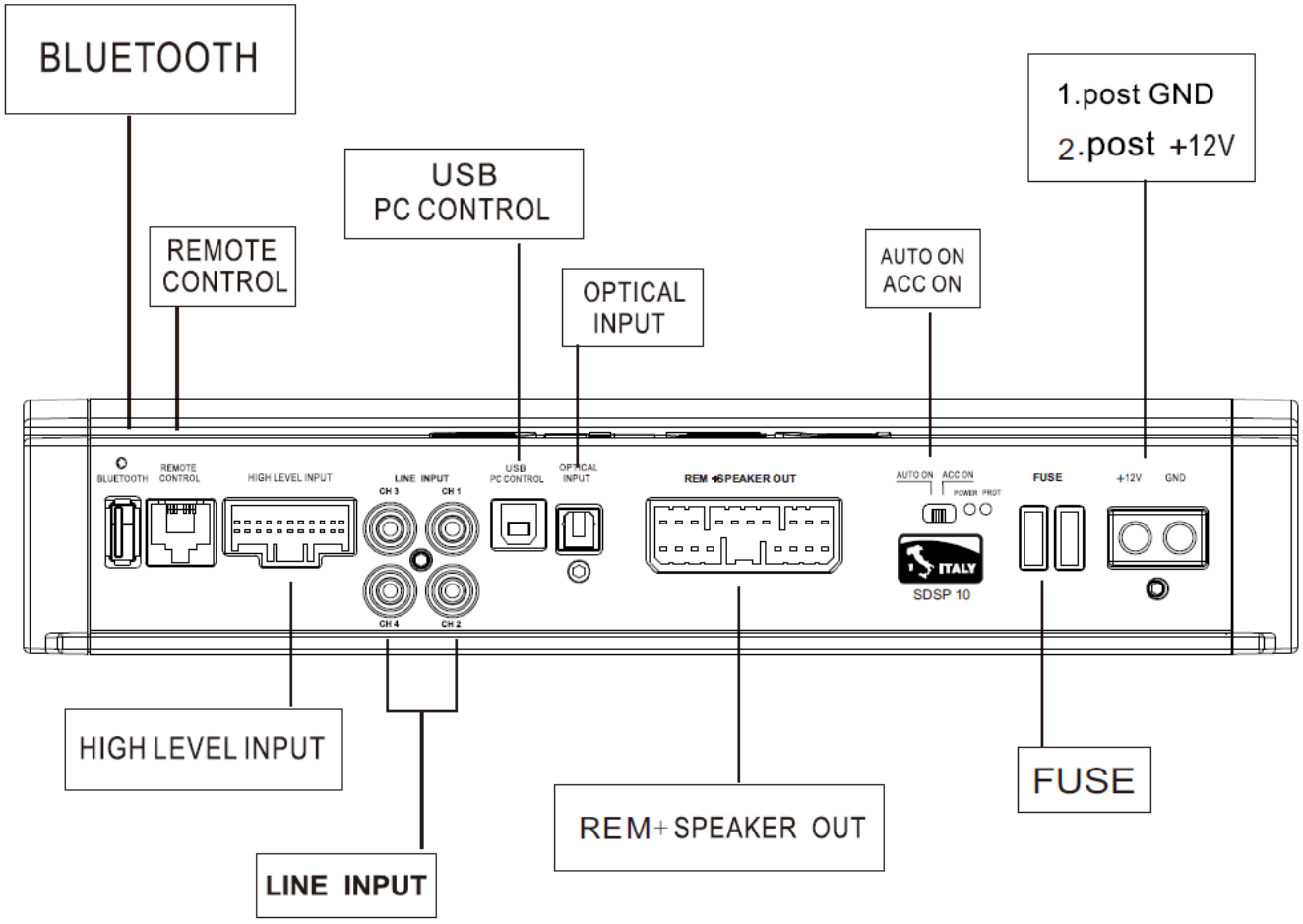
External dimensions



How to install

WARNING: do not use aggressive cleaning agents or abrasive cloth to clean the display. Simply use a soft cotton collar lightly damped with water.

CONNECTION PANELS-DESCRIPTION



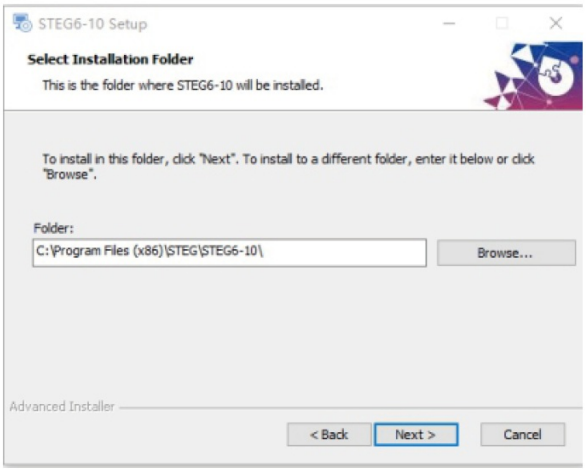
SOFTWARE INSTALLATION

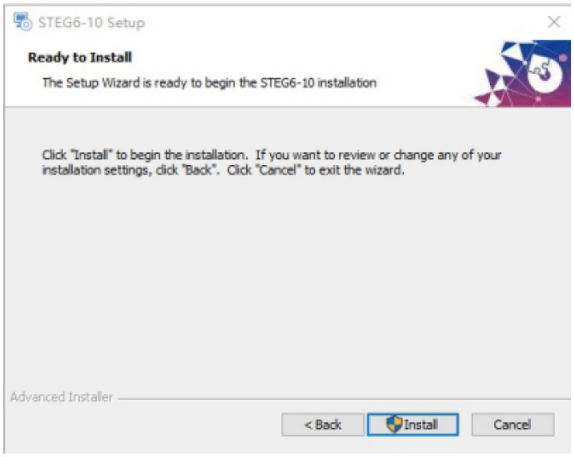
DSP GUI installation

1. **insert CD, Double-Click DSP**

2. **Click 2 & 3**

3. **Click 4 & 5**





4. **Click 6**

GUI OPERATION INSTRUCTION

Guide to GUI after installation

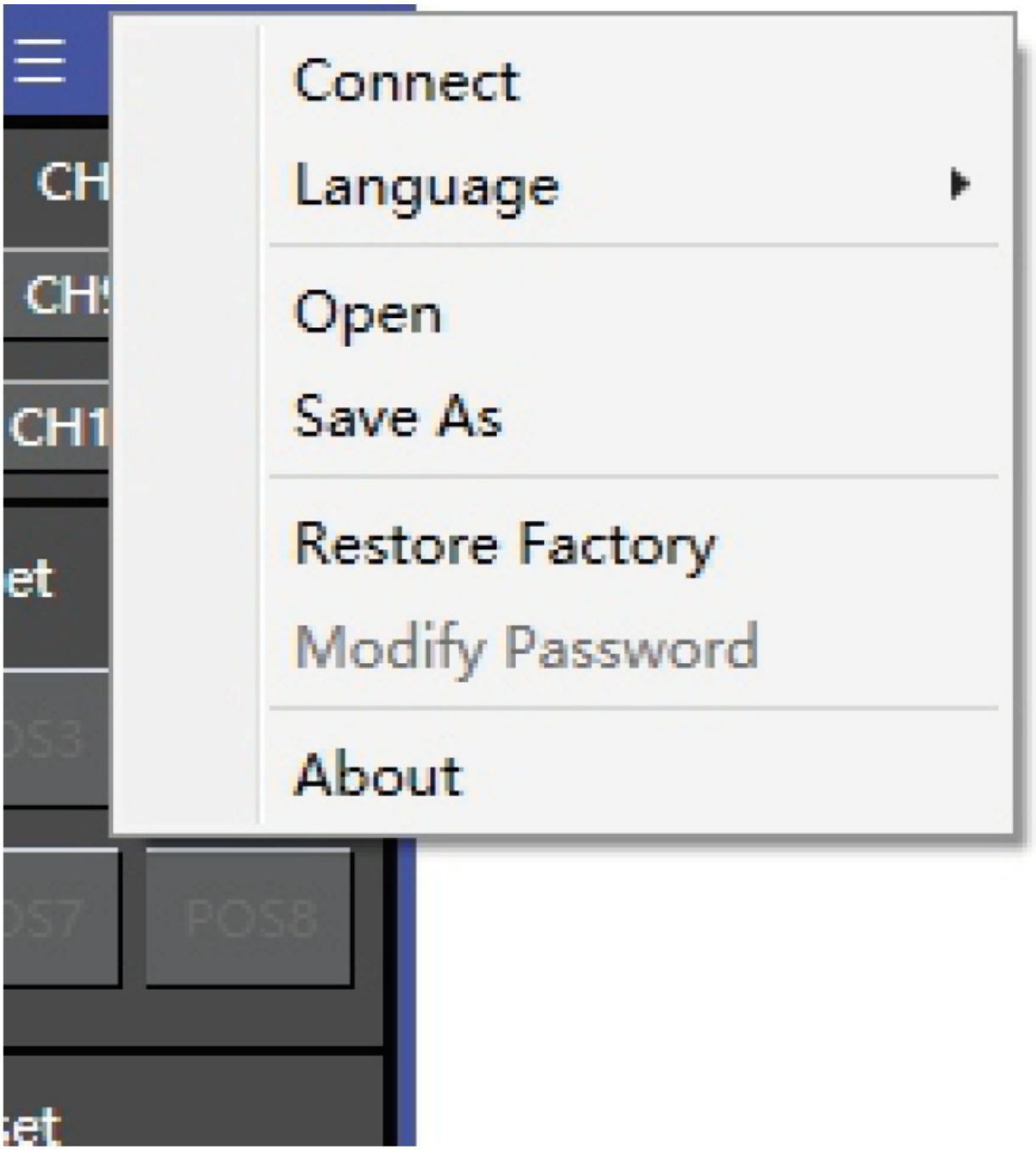
1. **Double-click the icon of DSP-CONTROL**

2. Enter the GUI you long for Now you could tone every signal detail as experts do To bring sound effects on your beloved car to a higher level. If the password has been set, You need to enter the password

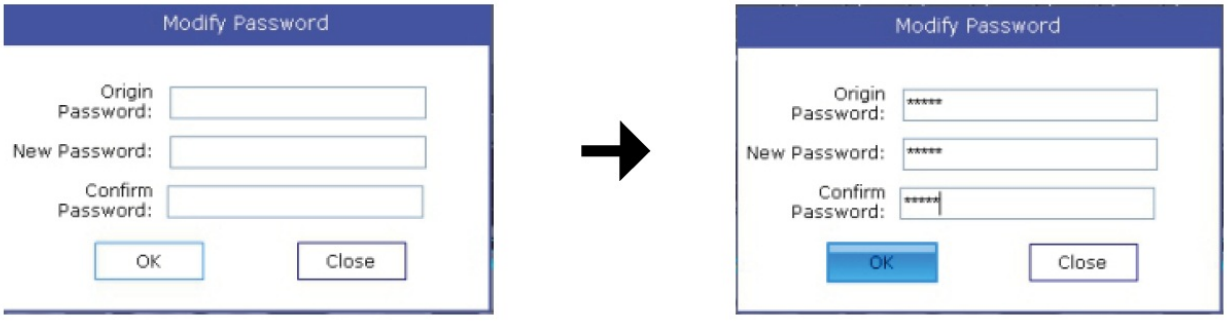
Interface introduction

1. DSP interface guidance

2. FILE MAIN MENU 1
    1. Connect(connect to the DSP



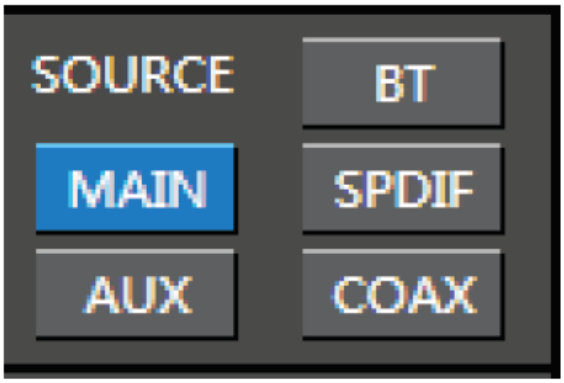
2. Language (choose your need language)
3. Open (To load the preset file in the PC folder)
4. Save (To save setting to PC)
5. Save as (To save another file setting to PC)
6. Restore Factory (To save the preset file in DSP)
7. Modify Password



8. Read From Device
9. Exit

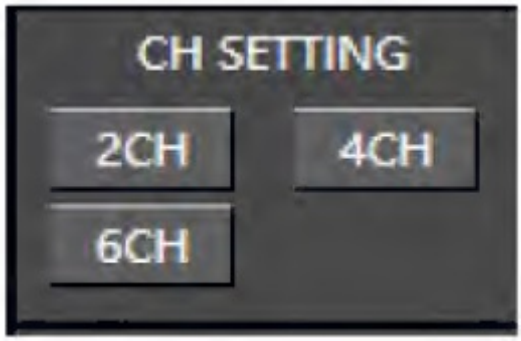
3. **INPUT MODE**

   To select different input devices.



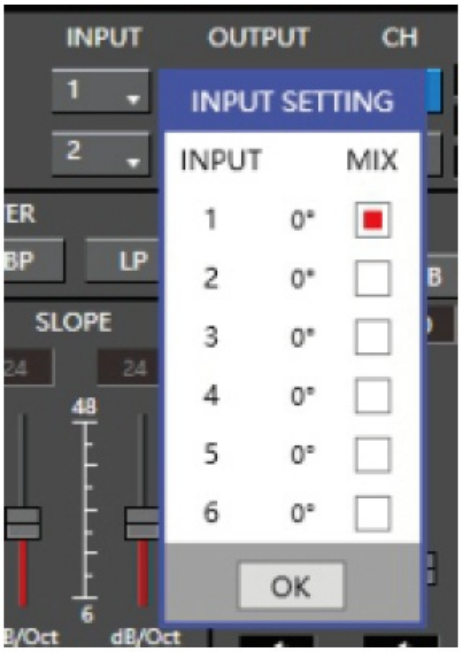
4. **CHANNEL SETTING**

   1. CH mode(2CH 4CH 6CH MIX).



   2. **Input channel**

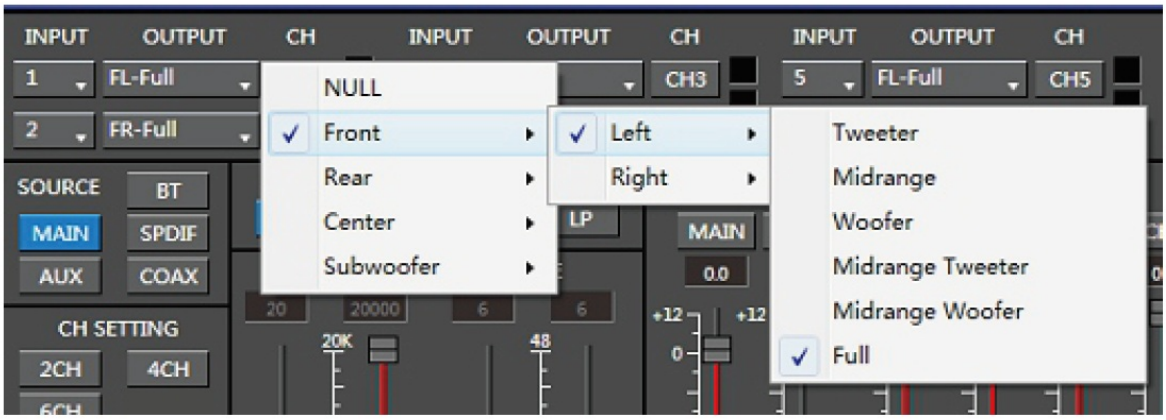
      1.



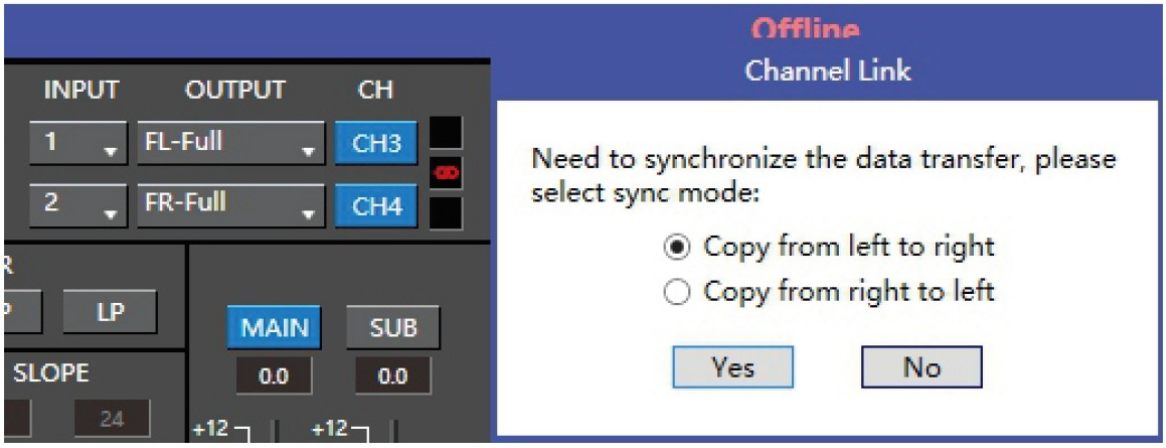
      When h highlighted red is selected, this channel input is indicated. If t wo or more are selected, t his channel input s indicated

      2. 0 ° Cliek o to watch to 180 ·, corresponding to the output of the channel
      3. **Output channel: FL FullRange.FR FullRange.**

         When you click the drop-down button, you can choose the state of the channel input. There is a Null Front Rear Center Subwoofer and Full.Tweeter.Mid-T.Midrange. M-WF. Woofer.



Options on the Link are for combining settings for Left CH and Right CH. Options on the Left CH/right CH allow you to tone each selected channel respectively

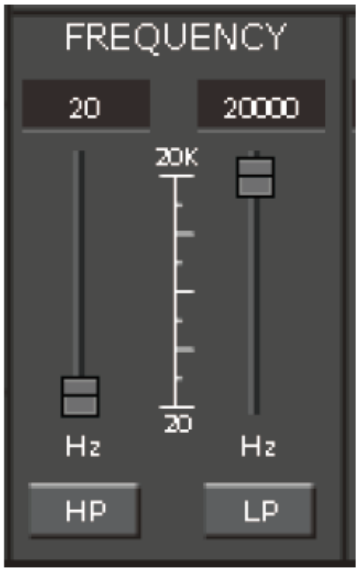


4. **CROSSOVER X-TPE.**

   To choose a different crossover type, for example, select CH selection on the 3RD spot .that would locate CH you want to choose for crossover configuration

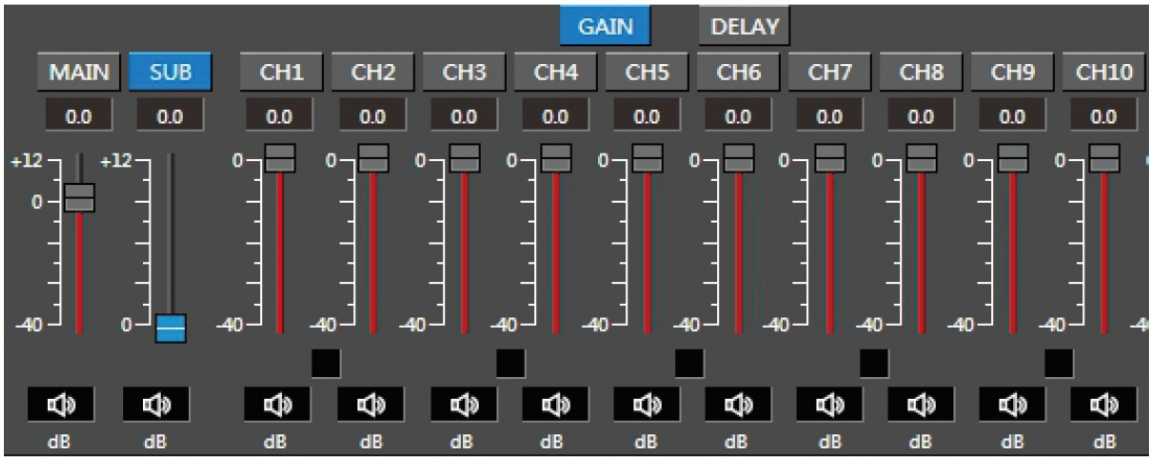
5. **CROSSOVER FREQUENCY.**

   Set frequency of LP/HP individually



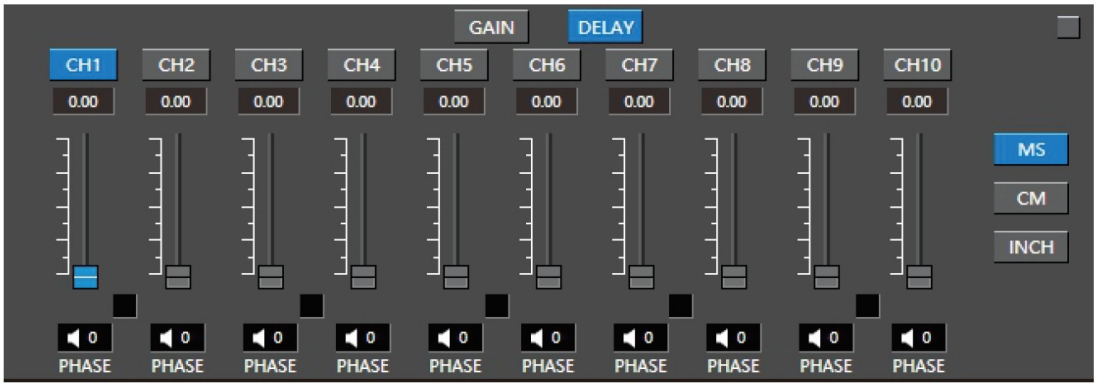
6. **GAIN.**

   0–40dB is an optional range for gain control of every CH



7. **DELAY.**

   1. Auto configuration(base on 1.5 setting).
   2. Manual configuration, change specifications in selected CH manually

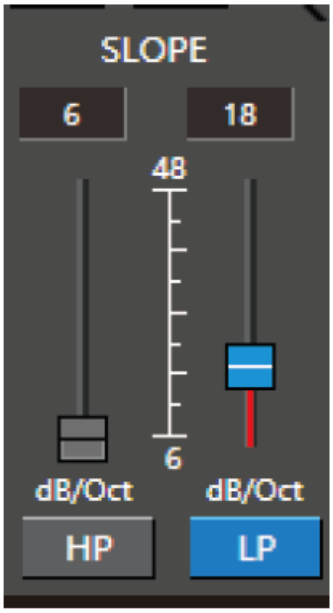


8. **LP/SLOPE.**

   1.6dB/oct 12dB/oct 18dB/oct 24dB/oct 30dB/oct

   36dB/oct. 42dB/oct 48dB/oct are available

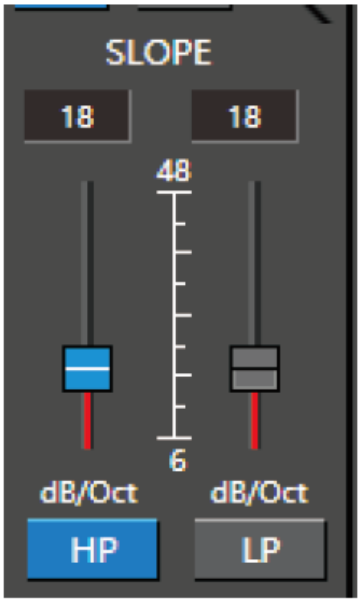
9.



HP/SLOPE

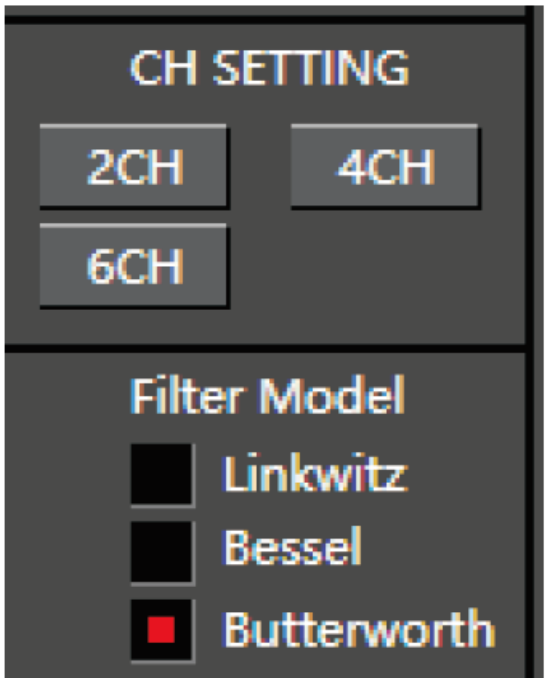
1.6dB/oct 12dB/oct 18dB/oct 24dB/oct 30dB/oct

36dB/oct.42dB/oct 48dB/oct are available



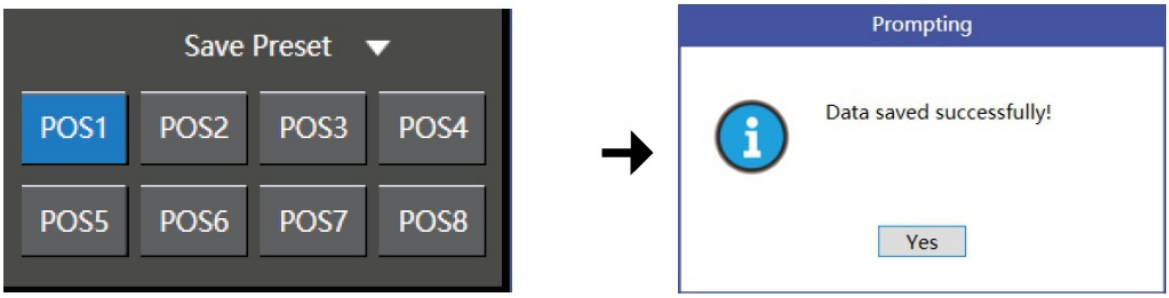
10. **Filter Model.**

    To choose different Filter type Linkwitz Bessel Butterworth.



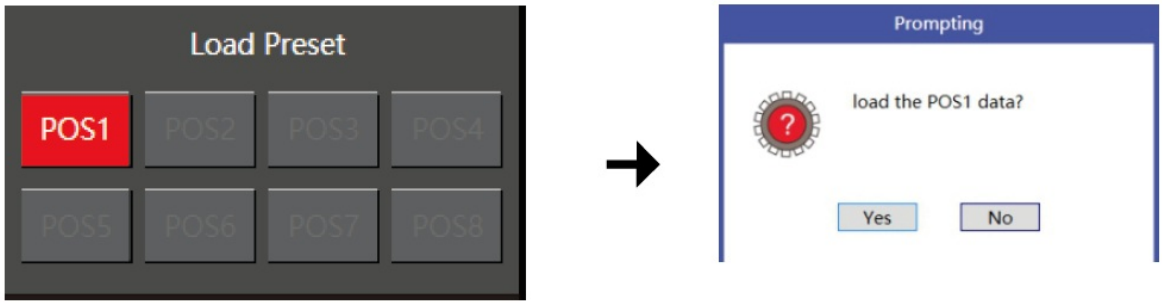
11. **WRITE.**

    To Write To Device(POS1-POS8

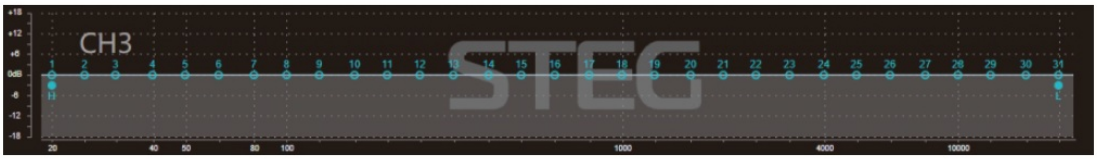


12. **READ.**

    To Read From Device(POS1-POS8).



13. **X-OVER AND EQ CHARTS.**
    1. Red lines and slopes will change accordingly when HP/LP of crossover and EQ are modified.
    2. EQ all frequency points can be moved left or right.For 20Hz-20KHz can be any Regulation.



14. **EQ SETTING.**

    Q volue=1-12.

REMOTE INTRODUCTION

1. A.Main volume.
   B.When you press this button for a short time,It is in the “MUTE” state. And the close “MUTE’:
   C.When you press this button for a longer time(for a second), It will enter the menu mode. In the”MODE” or”INPUT” fishing. You can adjust the mode which you want.
2. Main volume display window.
3. DSP mode display window(1-8).
4. input display status.(CD.AUX.SPDIF.WIFI).

TECHNICAL FEATURES

POWER SUPPLY	
Voltange	8.5-15VDC
Idling current	0,5A
Switched off without DRC	5mm
Switched off with DRC	4mA
Remote IN voltage	6-15 VDC
Remote OUT voltage	12 VDC(130mA)

SIGNAL STAGE	
Distortion - THD @ 1kHz, 1V RMS Output	0,0004%
Bandwith @-3 dB	20-22kHz
S/N ratio @ A weighted	
Master Input	98 dBA
Auxinput	96dBA
Channel Separation @ 1 kHz	95 dB
Input Sensitivity(Speaker In)	2-15 V RMS
Input Sensitivity(Aux In)	0,2-5 V RMS
Input Sensitivity(Phone)	
Input Sensitivity(Speaker In)	10kΩ
Input Sensitivity(Aux)	22kΩ
Input Sensitivity(Phone)	
Max OUTPUT Level(RMS) @ 0.1% THD	4 V RMS

INPUT STAGE	
High Level(Speaker)	1. 2. 3. 4. 5. 6. in
Low level(Pre)	1. 2. 3. 4. AUX in

CONNECTION	
From/To Personal Computer	1 x USB/B(1.1/2.0) 5M

CROSSOVER N.5(one each output channel)	
Filter Type	Full/High/Low Pass /Band Pass
Slope Setting	6/12/18/24/30/42/48 dB
Crossover frequency	68 steps @ 20- 20kHz
Phase control indepent setting for each channel	0 - 180°

Documents / Resources

	STEG SDSP68 Digital Signal Processor [pdf] Owner's Manual SDSP68, Digital Signal Processor, SDSP68 Digital Signal Processor, Signal Processor, Processor