



DSP 206 N

Professional Digital Audio Processor Operation Manual





IMPORTANT SAFETY INSTRUCTIONS

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO 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 a 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 is 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. Only use attachments/accessories specified by the manufacturer.
12. Use only with a 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 the operate normally, or has been dropped.
15. Use the mains plug to disconnect the apparatus from the mains.
16. **WARNING:** to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. Do not expose this equipment to dripping or spashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
18. The mains plug of the power supply cord shall remain readily operable.





CAUTION



**Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!**

For your own safety. Please read this user manual carefully before your initial start-up.

DEAR CUSTOMER:

Thank you choose our products! In order to ensure the safety of the machine and you, at the same time, make you can enjoy the best sound effects, back in before connecting or operating the machine be sure to read the instruction, please after reading this manual properly kept for future use.

OPEN - PACKAGE

After open the packing, please make sure the machine to see if there is damage during transportation, and in accordance with the requirements of this manual wiring and test each function more, if there is any question, please immediately notify the sales department.



With climate region under the condition of use



This equipment applies only to the altitude
Use below 2000 metres



Don't discarded, recycled use



This product is suitable for indoor use only



The high voltage electricity danger sign



Pay attention to warning signs



Product safety grounding mark



WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE EQUIPMENT TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION
TO REDUCE THE RISK OF
FIRE REPLACE DXF ONLY WITH SAME
TYPE FUSE.



- ◆ BUYERS PLEASE CHECK THE CASE WHEN THE REAR PANEL IS COMPLETE, THE BAR CODE ON ALL ACCESSORIES ARE COMPLETE, ETC.
- ◆ THE SPECIFIED MAINTENANCE DEPARTMENT OPENED MACHINES WILL NO LONGER BE WITHIN WARRANTY SCOPE.
- ◆ SUGGEST YOU WILL REMOVE THE PACKING MATERIALS AND ACCESSORIES, SUCH AS SAVE FOR LATER USE WHEN HANDLING OR MAINTENANCE.



This series product is the professional equipment, connection mode and the output voltage output of the machine is different from ordinary civil equipment, in the connection machine power or other equipment connection, must be in accordance with the instructions on the strict operation, otherwise there will be a serious danger!



This series product is the professional equipment, machine has a high voltage electric equipment inside, not through again the specialized training and acquire qualifications of personnel, please do not attempt to open the machine modification or maintenance, it may cause electric shock, can have dangerous life!

MAINTAIN

A: when the equipment need to clean, can wipe with dry cloth, spit abnormal machine dirt, preferable for cloth cleaning fluid on the sheng, in the container for 3-5 seconds, remove dirt rub-up, use dry cloth to wipe the body.

B: don't use alcohol, soluble liquid, pesticides or other volatile decayed liquid to wipe the appearance, otherwise it will damage to the surface of the machine, you are the same for a long time to place or woven by chemical qualitative cloth to wipe the surface, will eventually fade or loss on the surface of a machine, please read the instruction carefully when you need to use the cleaner rear can use.



FEATURE

- ◆ WIFI control via USB or TCP/IP LAN(Ethernet)
- ◆ 48KHz sampling rate
- ◆ 48 bit DSP
- ◆ Dynamic range: > 110dB
- ◆ Maximun input level at +20dBu
- ◆ Maximun output level at +20dBu
- ◆ operational frequency range 20Hz to 20KHz
- ◆ Processing latency:110ms(output)
- ◆ 20 character blue crystal LCD display
- ◆ 30 presets memory on hardware unit
- ◆ Butter worth,Bessel,Linkwitz-Riley filters
- ◆ 12,18,24 and 48db/Octave range
- ◆ 8 band fully parametric(frequency,Q snd gain)equalizer on each output
- ◆ channel and input channel
- ◆ 180 phase inverter and mute button on each output
- ◆ Limiter available on each output channel for added safety of the speakers
- ◆ USB interface for PC control
- ◆ RS-485 interface

ETHERNET

- 1?DSP can seach the IP address automatically
- 2?One PC can manage many different DSP processors
- 3?Data from DSPs exchange or share freely
- 4?IP address obtain Automatically
- 5?PORT access Automatically
- 6?IP address can be set by users



FRONT PANEL

USB INTERFACE

It can connect to PC by one USB cable to operate the DSP processor

LCD As shown `Preset 40`
`4x8-way crossover`

When switching on, the LCD display is on and show all parameters as they are edited and all menu selections.

Rotary Encoder

Adjust gains and program other technical parameters by pressing Edit buttons

GAIN BUTTON As shown `GAIN A`
`0.0dB`

You can adjust the gain when pressed the gain button

EQ As shown `EQ A Filtr:1-PEQ ON`
`0.0dB Q4.7 F19.7`

You can edit the EQs when pressed the EQ

RECALL As shown `Recall Preset:01`

Can check all the edited parameters from different users.

SAVE As shown `Save to Preset :01`

Save the parameters which the users edited

INPUT LEVEL

Control and monitor the input signal paths, Such as input level, mute and edited parameters

OUTPUT SELECTIONS

Control and monitor the output signal paths. It can fix the data for each channel

COPY As shown `Copy of utput`
`utput 2`

When copy down, the users can copy the edited parameters.

MUTE

It can mute no audio output or no audio output for that channel when pressed

DELAY As shown `DELAY A`
`.00ms .00ft`

You can edit the delay when pressed delay

EQ As shown `CROSSOVER 1 PF`
`19.7Hz 2-Bu` `CROSSOVER 1 PF`
`120K1 Hz 2-Bu`

Edit the EQ when pressed EQ button

Limiter As shown `LIMITER 1`
`ATT:0.5ms e l Rl 00ms`

Edit limiter parameters when pressed Limiter

IP

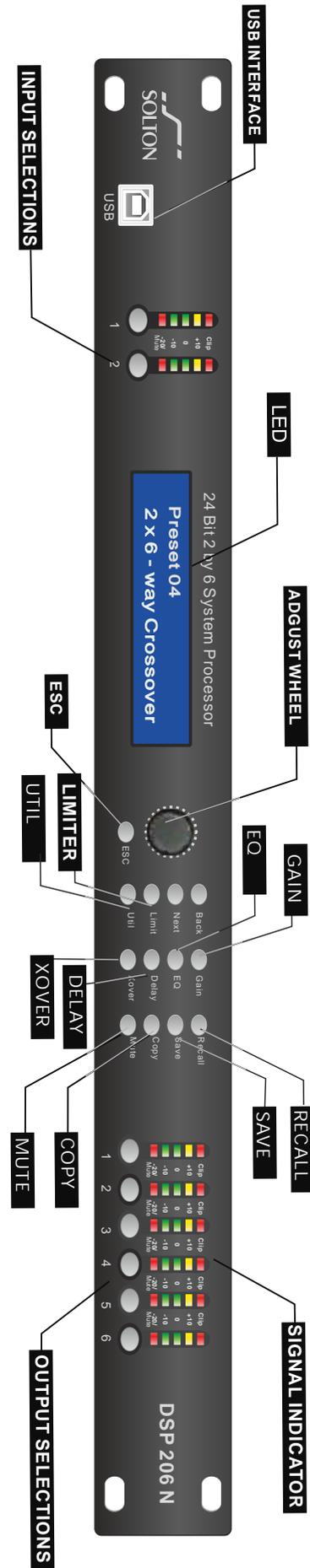
Check the IP data when pressed IP

ESC

It will go back to last menu when the DSP is editing and Pressed the ESC button. The DSP will back to default mode

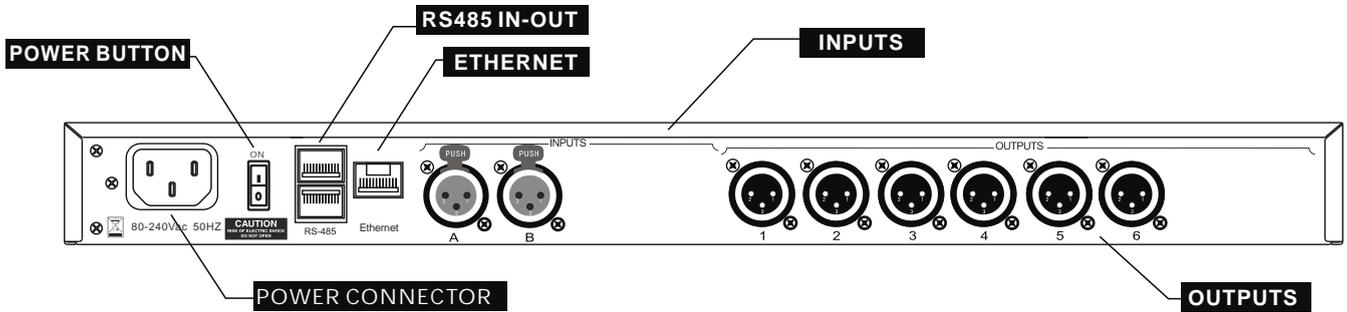
INPUT SELECTIONS

Edit the input parameters and monitor the input signals





REAR PANEL



POWER BUTTON

Turn on or off the unit's mains supply

POWER CONNECTOR

RS485 IN-OUT

Used for transmission of remote control data over long distance or multiple unit applications

ETHERNET

Using one cable connections, one computers can control and monitor many DSP units, and the different DSP units can communicate each other by different ID sets. Adding the Router, They are controlled by WIFI(TCP/IP)

AUDIO INPUTS

For connecting to the output of the power amplifier, can be set by PC or panel on the operation of this channel whether need to change the way of input signal, and can set up the relationship with the output signal.

AUDIO OUTPUTS

For connecting to the input end of the power amplifier, can be set by PC or panel on the operation of this channel whether need to change the way the output of the signal, and can set up the relationship with the input signal.



CAUTION: IN THE PROCESS OF SETTING TO PRESS THE ESC KEY TO EXIT THE RETURN TO THE STANDBY INTERFACE



WARNING

Triangle with lightning down arrow symbol, warning the user:
This machine has high voltage equipment, whose voltage is enough to produce risk.
Amateurs do not open the machine cover



ATTENTION

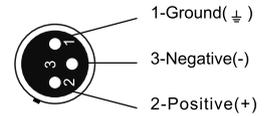
Triangle with exclamation sign, aims to remind the user: the machine
Have important operating requirements and instructions.
Amateurs do not open the machine cover



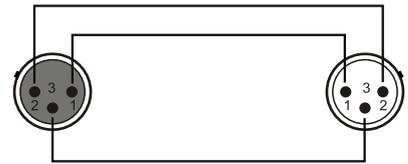
CONNECTOR



Use 3-pin male XLR connectors.



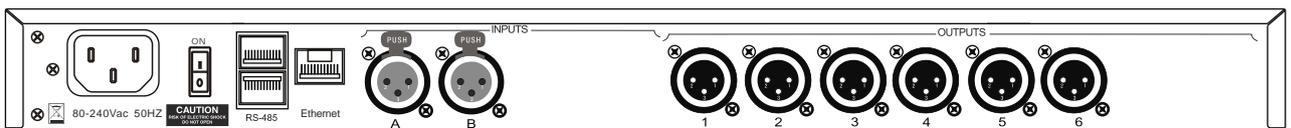
Unbalanced line may also be used but may result in noise over long cable runs.



Balanced input connector wire instructions These cables can be used in balance and imbalance forward unbalanced input and output signal.

For an explanation of polarity connection such as the right: The balance of the connector for each card nong output; Use the connectors can be used to connected to the input end of the power amplifier.

Note: balance card nong can also be used in unbalanced connector is used, but must be 3 feet vacancy, shell are connected to the earthing terminal 1 foot, when using balance connector, three-terminal (stereo) connection, must be in the correct way of connection, keep the feet connected correctly and to determine ground in safe and reliable. Incorrect connection may result in about 6 db signal loss.

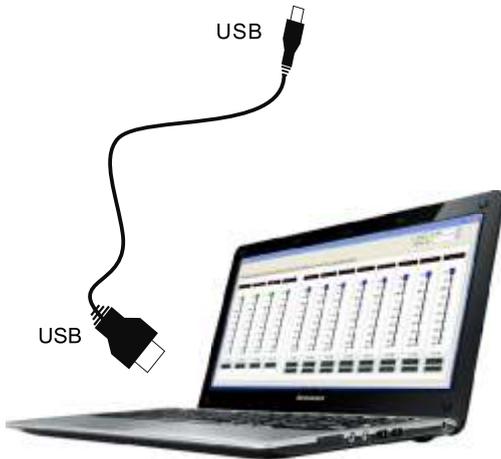


The connection to note:

1. Before connecting, please dispatch the volume control to a minimum
2. Make sure the power supply voltage is in accordance with the requirements by this machine, then connect the power plug



INSTALLATION



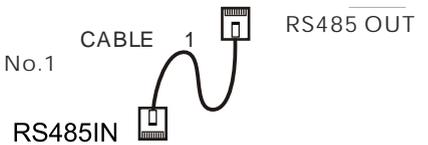
IN THE COMPUTER RUNNING THE LATEST PC SOFTWARE

After download and install the latest PC software can be connected to the PC through USB cable will this equipment, and to control others, but to manage equipment group, control group of the inside of the equipment
 Ensure that connection can normal communication
 Through the company's web site or random distribution wide achieving to obtain the latest version of the software and follow the installation instructions for installation, if the software update, we will update the first time on the Internet.
 If the inside of the control group of multiple devices must, we must adjust the COM for the corresponding control can be achieved.

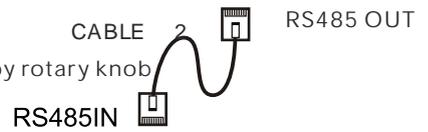
THE CONNECTIONS ARE AS FOLLOWS:



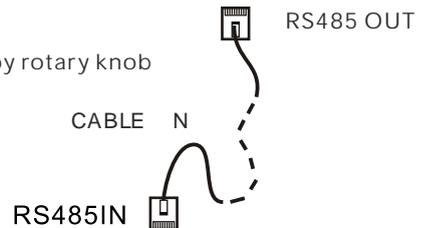
Press Util-choose Devic ID by turn rotary knob-press Util-Choose Devic No.1



Press Util--Choose Devic ID--Press Util--Press Menu—Choose Devic 2 by rotary knob



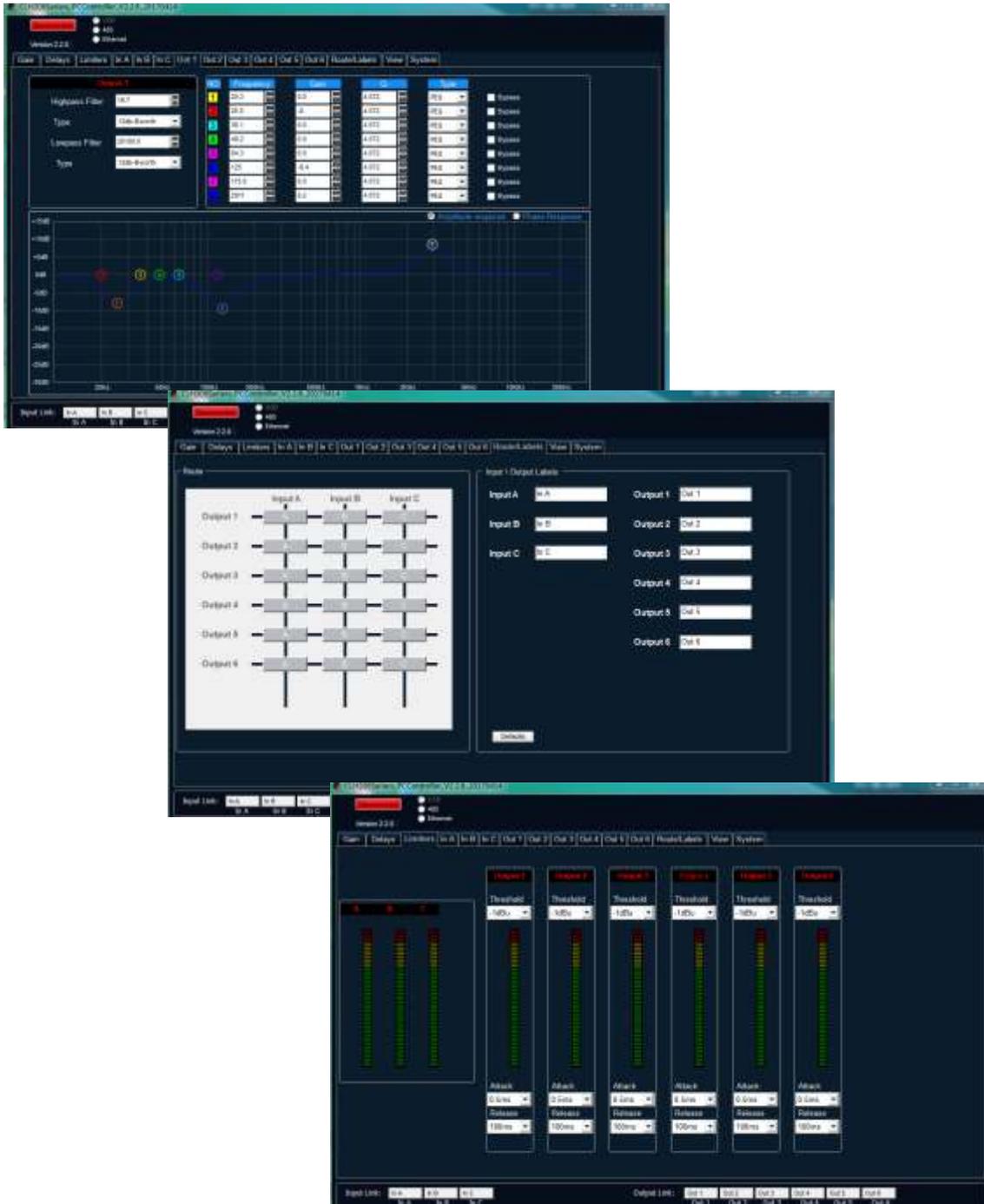
Press Util--Choose Devic ID--Press Util--Press Menu—Choose Devic 3 by rotary knob



Press Util--Choose Devic ID--Press Util--Press Menu—Choose Devic no. by rotary knob



INSTALLATION



The image displays three overlapping screenshots of the Solton software interface, illustrating different configuration screens:

- Top Screenshot:** Shows the 'Filters' configuration screen. It includes a table of filter parameters and a frequency response graph.
- Middle Screenshot:** Shows the 'Route' configuration screen, featuring a routing matrix and input/output labels.
- Bottom Screenshot:** Shows the 'Compressor' configuration screen, displaying six compressor channels with their respective parameters.

Filter	Order	Frequency	Gain	Q	Phase	Type
1	20.0	0.0	1.000	0.0	0.0	Pass
2	20.0	0.0	1.000	0.0	0.0	Pass
3	90.0	0.0	1.000	0.0	0.0	Pass
4	90.0	0.0	1.000	0.0	0.0	Pass
5	200.0	0.0	1.000	0.0	0.0	Pass
6	200.0	0.0	1.000	0.0	0.0	Pass
7	720.0	0.0	1.000	0.0	0.0	Pass
8	720.0	0.0	1.000	0.0	0.0	Pass
9	1150.0	0.0	1.000	0.0	0.0	Pass
10	1150.0	0.0	1.000	0.0	0.0	Pass
11	2000.0	0.0	1.000	0.0	0.0	Pass

Channel	Threshold	Attack	Release
1	100%	0.0ms	100ms
2	100%	0.0ms	100ms
3	100%	0.0ms	100ms
4	100%	0.0ms	100ms
5	100%	0.0ms	100ms
6	100%	0.0ms	100ms

Notes





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ÄNDERUNGEN VORBEHALTEN